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Agricultural Research Service

Miscellaneous Publication Number 1454 SIAC

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1977

ABSTRACT

Thurman, Jane L., and Ralph T. Roberts. 1987. Hydrologic data for experimental agricultural watersheds in the United States, 1977. U.S. Department of Agriculture Miscellaneous Publication No. 1454, 341 pp.

Hydrologic data from 88 agricultural watersheds for calendar year 1977 are summarized in this publication. Daily and monthly total precipitation and runoff together with annual maximum peak discharge and maximum runoff for selected time intervals are included. Watershed descriptive information is presented. Maximum and minimum daily temperatures are given for many of the watersheds. This is the 21st publication in this series.

KEYWORDS: Air temperature, hydrology data, hydrology research, precipitation, rainfall, runoff, streamflow, water data, watersheds

U.S. DEPARTMENT OF AGRICULTURE

Agricultural Research Service

In Cooperation With

State Agricultural Experiment Stations

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United States Department of Agriculture

Agricultural Research Service

Miscellaneous Publication Number 1454

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1977

Compiled by

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PREFACE

This publication presents basic data on monthly precipitation and runoff; annual maximum discharge and maximum volumes of runoff; daily precipitation and mean daily discharge, with daily air temperature for some areas; and selected runoff events, with associated data on rainfall, land use, and antecedent conditions for agricultural watersheds where research was in progress during 1977. It is a continuation of processing and releasing hydrologic data of general interest collected cooperatively with other agencies.

Throughout the watershed studies, the State agricultural experiment stations have collaborated in selecting, planning, and conducting these studies. In several studies the U.S. Geological Survey and State and local agencies, such as State water boards and highway departments of local drainage and conservation districts, have assisted in the work. The classification and correlation of soils and evaluation of other watershed characteristics in the descriptions have been based mostly on field surveys by the U.S. Department of Agriculture's Soil Conservation Service.

These data were collected originally for specific research objectives, which are still in progress or have been attained. In addition, they can serve many other purposes. This publication provides information for other Government agencies, university staff members, graduate students, private engineers, and those who need detailed, factual information concerning agricultural watersheds. High-quality hydrologic data such as these have historic value in addition to providing a basis for research and design and evaluation of projects and programs for conservation and development of the Nation's water resources.

Although the data on which this publication is based were collected in 1977 or earlier, the findings are still valid and are used for further research on agricultural watersheds.

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The decimal system of paging is used to index the watershed data. Pages are numbered at the bottom (eenter) according to location and watershed number, and the data for each watershed are given on one or more pages. For example, page 10.001-1 is location 10 (Watkinsville, Ga.), Watershed 1 (W-l at Watkinsville), and page 1 of the data for that watershed. For convenience in finding items listed in table 3, pages are also numbered consecutively at the bottom (outside corner).

Table 3 is a list of continuing or new watersheds by State, locality, assigned location number, and land resource area, with number of watershed units and selected runoff events reported for 1977 in this publication. Table 4 includes similar data on discontinued watersheds.

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Issued May 1987

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1977

This is the 21st publication in the series on hydrological data by the U.S. Department of Agriculture. The first three volumes are described in the following section and the others are summarized in table 1. Since the decimal paging system used (see explanation on preceding page) is consistent with that at the bottom of pages in the other 20 publications, previously published records and general descriptions associated with each study can be readily found.

This publication contains selected hydrologic data from 88 watersheds for 1977. It includes data on monthly precipitation and runoff for all the watersheds; annual maximum discharge and maximum volumes of runoff for intervals of 1, 2, 6, and 12 hours and 1, 2, and 8 days for 85 watersheds; daily precipitation for 87 watersheds; mean daily discharge for 88 watersheds; applicable daily maximum and minimum air temperatures for 76 watersheds; and detailed information on 1 or more selected typical storm events for 73 watersheds.

Information on selected storm events includes (1) tabular data for antecedent rainfall and runoff, (2) data on rainfall intensity and runoff for the event and on accumulated depth of rainfall and runoff, (3) description of watershed conditions at the time of the selected events, and (4) plottings of runoff hydrographs and rainfall histograms.

Newly established watersheds include descriptions of watershed physical characteristics, instrumentation, land management, graphs, maps and recommended area of application of the results.

The first 11 publications in this series resulted from the cooperative efforts of several watershed research projects of the Agricultural Research Service and the editing staff in Beltsville, MD. Hydrologic data were summarized, arranged according to standardized formats, recorded on preprinted data sheets, and submitted to the editing office for final review, assemblage, and publication.

A computer-oriented system, designed and developed by the Water Data Laboratory, is now used to produce camera copy for these publications. This is the 10th publication that has been compiled using the computerized system. Hydrologic data submitted from research projects, in digital computer form, are accepted by the system. The required data analyses, summaries, tabular listings, and plottings are produced by the system. Narrative information is incorporated into the system as uppercase and lowercase alphameric data using computer-compatible word processing equipment. The format of hand-compiled references (4-11) has been retained where practicable in the computer-compiled versions of the publications.

PUBLICATIONS OF EARLIER DATA

llistorical hydrologic data on the experimental agricultural watersheds, both terminated and active, have been previously summarized in three looseleaf publications (reprints in bound volumes) by the Agricultural Research Service. They are described in the following three reference summaries. Beginning with the hydrologic data for 1956 through 1977, the types of data previously published separately in these three references are combined in U.S. Department of Agriculture Miscellaneous Publications 945, 994, 1070, 1164, 1194, 1216, 226, 1262, 1330, 1370, 1380, 1383, 1412, 1420, 1437, 1446, 1451, and 1454. These 18 publications are listed in table 1 as references 4-21. These reference numbers have been assigned to simplify citations to them in this and future publications. The first three looseleaf, and the first eight miscellaneous publications have been recorded on 16-mm microfilm. Copies can be made available for the cost of the film processing.

Reference 1,--"Monthly Precipitation and Runoff for Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Branch, (691 pages, 1957) includes physical descriptions and land use of 334 experimental agricultural watersheds at 60 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1955.

Reference 2.—"Annual Maximum Flows From Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Division, (330 pages, 1958) includes records from 322 watersheds at 59 locations in 27 States from 923 through 1957. Many of these watersheds were discontinued before 1957.

Reference 3.--"Selected Runoff Events for Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Division, (374 pages, 1960) includes a sampling of 1 to 6 typical runoff events from 68 watersheds at 40 locations in 25 States from 1933 through 1959. The publication has maps of each watershed, information on watershed conditions for each event, including the 30-day antecedent rainfall and runoff, and tabular as well as graphic data on each storm.

Copies of all these publications have been furnished to the Soil Conservation Service and other Federal, State, and local government agencies. Upon request, they have also been distributed to State agricultural experiment stations, university libraries and engineering departments, private engineers and individuals, and similar foreign institutions and individuals.

Table 2 lists a historical summary of the 21 publications including the designated watershed locations, area, record years of data, and a publication reference number indicating the specific data storage location in the ARS Water Data Bank.

Table 3 summarizes the location of each watershed under study and reported in this 21st publication.

Table 4 lists the watershed units where studies were discontinued in 1976.

FORM OF DATA PRESENTATION

The data in this publication are presented for each watershed in the following order: (1) Watershed description, if not previously published; (2) monthly precipitation and runoff; (3) average monthly precipitation and runoff for period of record; (4) annual maximum flows; (5) daily temperature extremes for some watersheds, daily precipitation, and mean daily discharge; (6) selected runoff events; (7) graphs of selected runoff events; and (8) watershed maps, if not previously published or if revised.

Continuing Watersheds

For current watersheds for which the descriptive information has been published in references 1 and 4-20, the tabular data begin at the top of the first page. On each page at the bottom outside corner is a sequential page number and the decimal paging system is shown at the bottom center.

The geographic location associated with each study, usually a city and State, and the local name and number of the watershed are recorded at the top of the first page for each watershed. This identification is followed by detailed information on the geographic location, including latitude and longitude when available, and the size of the watershed.

In the space to the right of the first table title, MONTHLY PRECIPITATION AND RUNOFF (inches), the location and watershed number (or designation) are given.

Table 1.--Description of references 4-21 of "Hydrologic Data for Experimental Agricultural Watersheds in the United States"

Reference	Year (19)	Misc. Publ. No.	Year published (19)	Total pages	Monthly precipita- tion and runoff	Annual maximum discharge and runoff for selected time intervals	Selected runoff events	New watersheds	Daily pre- cipitation discharge, and/or temperature (max-min)
4	56-59	945	63	672	157	142	134	45	
5	60-61	994	65	496	160	145	133	24	•••
6	62	1070	68	447	164	155	136	13	50
7	63	1164	70	465	168	156	142	9	57
8	64	1194	71	460	163	163	143	8	57
9	65	1216	72	568	189	178	122	22	60
10	66	1226	72	399	198	185	106	11	60
11	67	1262	73	634	216	204	174	26	62
12	68	1330	76	542	174	174	116	1	174
13	69	1370	79	602	167	150	139	5	167
14	70	1380	79	515	153	139	113	2	150
15	71	1383	80	509	145	135	122	1	145
16	72	1412	81	433	131	117	98	0	131
17	73	1420	82	404	100	97	88	1	100
18	74	1437	83	417	98	95	82	0	98
19	75	1446	84	580	98	95	82	8	98
20	76	1451	86	324	93	90	79	0	93
21	77	1454	87	341	88	85	73	0	88

Table 2.--Index to information on experimental agricultural watersheds included in references 1-21

	Study locati	ion	Area		cord ⁴ 9)						Ir	ndex	c to	ir	for	ma t	ion	ir	n re	efer	en	ce ¹				
shed ID code ²	Town Sta	ate	Watershed in name/No. acres ³		E	01	02															-		ned) 3 19	20	21
01001 01002	Arnot Forest Arnot Forest	NY NY	W-1 17.9 W-4 17.9		47 47	01 01																				
02002 02003	Cohocton Cohocton	NY NY	W-II 13.8 W-III 24.2		45 45		02 02																			
04002	Freehold Freehold Freehold	INJ LN NJ	W-II 17.5 W-II 32.9 W-III 51.8	38	43 55 43		02 02 02																			
	College Park College Park College Park College Park College Park	MD MD MD MD MD	W-1 8.22 W-2 7.44 W-3 5.02 W-4 5.03 W-5 4.07	39 39	54 54 55 55 54		02																			
05006 05007 05008 05009 05010	College Park College Park College Park College Park College Park	MD MD MD MD MD	W-6 3.53 W-7 3.52 W-B 2.43 W-9 12.05 W-10 3.04	40 40 40	62 62 55 55 54	01 01	02 02 02 02 02 02	03 03																		
06001 06002	Hagerstown Hagerstown	MD MD	W-I 46.3 W-II 80.8		47 47	01 01	02 02	03																		
07001	Auburn	AL	W-I 27.0	45	47	01	02																			
08002* 08003* 08004	Vero Beach Vero Beach Vero Beach Vero Beach Vero Beach	FL FL FL FL	W-2 (a)66,880. W-3 (b)12,224. W-4 3,970.	55 55	73	01 01 01		03	04	05	<u>06</u> 06	07 07	80 80	09 09	10 10 10 10	11 11				15	16	17	18	8 19	1 20	0 21 0 21 0 21
09002* 09003*	Americus Americus Americus Americus	GA GA GA	W-II 42.8	38 38	43 42 42 43	01 01 01 01	02	03																		
10001*	Watkinsville	GA	W-1 19.2	39		01	02		04	05	06	07	08				12	13	14	15	16	17	18	8 19	20	0 21
11001 11002 11003	High Point High Point High Point	NC NC NC	W.F.D.R. 21,100. M.C. 10,300. U.R. 7,230.	34	53 41 41	01 01 01		03	04 04 04																	
12001 12002	Statesville Statesville	NC NC	C-8 5.12 W-23 6.00		38 38	01 01																				
	Blacksburg Blacksburg Blacksburg Blacksburg Blacksburg	V A V A	W-II 5.44 W-III 19.3 W-IV 3.49 W-V 6.08 W-VI 7.70	39 51 52	51 67 67 67	01 01 01 01 01	02 02 02	03	04 04	05 05	06 06	07 07	80 80	09 09	10 10 10	11 11										
13007* 13008* 13009*	Blacksburg Blacksburg Blacksburg Blacksburg Blacksburg	V A V A	T.C. 3,054. C.C. 786. B.C. 893. P.C. 182. L.W.C. 1,471.	57 57 58						05 05 05	06 06 06	07 07 07	80 80 80	09 09 09	10 10 10 10	11 11 11	12 12 12	13	14	15	16					
13012* 13013* 13014*	Blacksburg Blacksburg Blacksburg Blacksburg Blacksburg	٧A		59	69 69 69					05 05 05	06 06 06	07 07 07	08 08 08	09 09 09	10 10 10 10 10	11 11 11	12 12 12									
14001 14002 14003	Chatham Chatham Chatham	٧A	W-I 13.3 W-II 16.1 W-III 17.1	38	48 48 48	01 01 01		03																		
	Staunton Staunton Staunton	V A V A	W-I 390. W-II 2,430. W-III 6,144.	48	55 55 55		02 02		04																	

Table 2.--Index to information on experimental agricultural watersheds included in references 1-21 (Continued)

shed	Study locati		Watershed	Area i in 3	Record ⁴ (19)	Index to information in reference (references with revised information underlined)
code ²	Town Sta	ete .	name/No.	acres ³	8 E	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21
16006*	Klingerstown	PA	WE-38	1,773.	68	12 13 14 15 16 17 18 19 20 21
17002* 17003*	Edwardsville Edwardsville Edwardsville Edwardsville	IL IL IL	W-1 W-2 W-3 W-4	27.22 49.95 12.55 289.8	38 55 38 55 38 42 38 55	01 02 03 01 02 01 02 01 02 03
18001 18002 18003 18004 18005 18006	E1mwood E1mwood E1mwood E1mwood E1mwood E1mwood	IL IL IL IL IL	WB-1 WB-2 WB-3 WB-4 WB-5 WB-6	1.28 2.28 2.61 2.77 1.93 2.41	45 46 45 46 45 46 45 46 45 46 45 46	01 01 01 01 01
18007 18008 18009 18010 18011 18012	Elmwood Elmwood Elmwood Elmwood Elmwood	IL IL IL IL IL	WT-1 WT-2 WT-3 WT-4 WT-5 WT-6	2.02 1.88 2.40 2.06 2.76 5.35	45 46 45 46 45 46 45 46 45 46 45 46	01 01 01 01 01
19003 19004	Lafayette Lafayette Lafayette Lafayette Lafayette	IN IN IN IN	W-1 W-2 W-4 W-5 W-6	2.55 2.23 2.01 2.87 2.79	40 53 40 53 40 53 40 53 40 53	01 02 01 02 01 02 01 02 03 01 02 03
	Lafayette Lafayette Lafayette Lafayette Lafayette	IN IN IN IN	W-7 W-8 W-10 W-11 W-12	1.96 1.96 2.06 2.05 3.37	40 53 40 53 40 53 40 53 40 53	01 02 01 02 01 02 01 02 01 02
19013 19014	Lafayette Lafayette Lafayette Lafayette Lafayette	IN IN IN IN	W-13 W-14 W-15 W-18 W-20	3.02 2.85 3.59 3.24 2.64	40 53 40 53 40 53 40 53 40 52	01 02 01 02 01 02 01 02 01 02
19017 19018 19 01 9	Lafayette Lafayette Lafayette Lafayette Lafayette	IN IN IN IN	W-25 W-31 W-32 W-33 W-34	3.52 1.64 1.83 3.44 3.17	40 52 40 51 40 51 40 51 40 51	01 02 01 02 01 02 01 02 01 02
20003 20 00 4	Clarinda Clarinda Clarinda Clarinda Clarinda	IA IA IA	W – W W – X W – Y	3.25 1.97 1.97 3.25 3.12	32 42 34 42 34 42 32 42 32 42	01 02 01 02 01 02 01 02 01 02
21 001	Iowa City	IA		1,930.	24	01 02 03 04 05 06 <u>07</u> 08 09 10 11 12
22001 22 00 2	Shenandoah Shenandoah	I A I A		28 ,00 0. 67,2 0 0.	34 40 34 40	01 02 01 02
23001 23002 23003	East Lansing East Lansing East Lansing	MI MI MI	A B W	1.98 1.35 1.65	41 59 41 59 41 59	01 02 04 01 02 04 01 02 04
24001 24002 24003 24004 24005	Bethany Bethany Bethany Bethany Bethany	MO MO MO MO	Pa-A Pa-B Pa-C D-1 0-2	2.03 5.56 1.97 7.51 8.03	34 42 32 42 37 42 34 42 34 42	01 02 01 02 01 02 01 02 01 02
24006 24007 24008	Bethany Bethany Bethany	M0 M0 M0	0-3 1-58 IJ-1	4.48 2.12 2.13	32 42 33 42 33 42	01 02 03 01 02 01 02
	McCredie McCredie	MO MO	S.R.W. No.2	153. 44.3	41 51 63	01 02

Table 2.--Index to information on experimental agricultural watersheds included in references 1-21 (Continued)

later- shed	Study 1c	cation	Watershed	Area in _	Record (19)			,						in									, .			
II) ode ²	Town	State	name/No.	acres ³	ВЕ	01	02 (_			09											20	21
																		-	-							_
	Coshocton		102	1.26			02			05	06	07	80	09	10	11	12	13	14	15	16	17	18	19	20	2
	Coshocton		104 129	1.33	37 46 38 71	01	02 02		04 04	05	06	0.7	na.	09	10	11	12	13	14	15				10	20	21
	Coshocton		135		38 69	01								09					14	15					20	
	Coshoctor		130	1.63	38 71	01	02	(04	05	06	07	80	09	10	11	12	13	14							
	Coshocton		107		38 46	01			04																	
	Coshoc ton		131 132	2.21 0.62	38 69 48 69	01								09 09												
	Coshoc ton		134		38 46	01			04			0,	00	0,5			' -	10								
6010*	Coshocton	OH	123	1.37	39	01	02	(04	05	06	07	80	09	10	11	12	13	14	15	16	17	18	19	20	21
	Coshocton		115	1.61	39 70	01								09												
	Coshocton		127 109		49 70 38	01 01								09 09					14	15	16	17	18	19	20	2
6014*	Coshocton	OH	103		39	01		(04	05	06	07	80	09	10	11	12	13		, ,						-
6015*	Coshocton	OH	110	1.27	39	01	02	(04	05	06	07	80	09	10	11	12	13						19	20	21
	Coshocton		113		39 76	01								09												
	Coshoc ton				40 76 39 70	01 01								09 09												
6019*	Coshocton	OH	121	1.42	39	01	02	(04	05	06	07	80	09	10	11	12	13							20	
6020*	Coshocton	0H	106	1.56	39 72	01	02	(04	05	06	07	80	09	10	11	12	13	14	15				19	20	21
	Coshocton Coshocton		188 124	2.05 2.07	39 70 39 47	01 01			04	05	06	07	80	09	10	11	12	13								
	Coshocton		185		39 72	01		(04					09												
	Coshocton Coshocton			7.20 7.59	41 72 39	01 01								09 09					14							
																	1 -	13								
	Coshocton Coshocton		172 169	43.6 29.0	39 72 40 71	01 01								09 09			12	13								
6028*	Coshocton	OH	177	75.6	40 71	01	02	(04	05	06	07		09												
	Coshoc ton Coshoc ton	OH OH	183 196	74.2 303.	38 63 37		02 (08	09	10	11	12	13	14	15	16	17	18	19	20	2
	Coshocton	ОН	10	122.	39 71	01								09												
	Coshocton	0H	5	349.	40 71	01								09												
	Coshocton		92	920.	39 71	01		(04	05	06	07	80	09	10	11	12	13	14							
	Coshocton Coshocton	0H	94 95	1,520. 2,570.	39 71 39 72	01 01								09 09						15						
5036*	Coshocton	ОН	97	4,580.	37 70	01	02 (
	Coshocton	OH		17,400.	36	01								09			12	13	14							
	Coshocton		174 194	52.8	60 77 60 77									09												
	Coshocton		182	187. 69.6	64					US	00	07	UO	09			12				10	17	10		20	
6041*	Coshocton	ОН	166	79.2	67															15				19	20	21
	Hamilton		W-1	187.	38 44		02 (03																		
	Hamilton Hamilton		W-III	16.2 28.8	38 44 38 44	01 01																				
	Hamilton		W-IV	20.3	38 44	01																				
3001	Zanesvill	e OH	C.W.	2.55	34 45	01	02																			
8002	Zanesvill	e OH	P.W.	3.57	34 45	01	02																			
8003	Zanesvill	е ОН	W.W.	2.23	34 45	01	02																			
9001	Colby	WI	W-1	345.	49 66	01	02 (03 (04	05	06	07	80	09	10											
	Coon Vall			9,400.	34 40	01																				
	Coon Vall			19,344.	34 40	01																				
	Fennimore Fennimore	W I W I	W-1 W-2	330. 22.8	38 69 38 68		02 0																			
	Fennimore	WI	W-2 W-3	52.5	38 69	01								09												
	Fennimore	WI	W-4	171.	38 68		02 (
	La Crosse	WI	U.P.W.	2.41	33 55	01																				
2002	La Crosse		U.C.W. C.W.	2.24 2.71	33 46 37 63	01 01			04	05	0.0	0.7														
)UU3	La Crosse																									

Table 2.--Index to information on experimental agricultural watersheds included in references 1-21 (Continued)

Water- Study locati	ion_ Watershed	Area in	Record (19)	
ID Town Sta	ate name/No.	acres ³	B E	(references with revised information underlined) 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21
32005 La Crosse	WI E-3	1.01	33 42	01 02
32006 La Crosse	WI A-4		33 54	01 02
33001 Bentonville 33002 Bentonville 33003 Bentonville 33004 Bentonville 33005 Bentonville 33006 Bentonville	AR W-1 AR W-2 AR W-3 AR W-4 AR W-5 AR W-6	10.03 9.34 14.25 24. 19.4 10.75	38 43 38 47 38 47 39 47 39 47	01 02 01 02 01 02 01 02 01 02 03 01 02
34001* Cherokee	OK W-1	2.23	42 60	01 02 04
34002* Cherokee	OK W-2	4.82	42 60	01 02 04
34003 Cherokee	OK W-3	8.04	42 60	01 02 04
34004 Cherokee	OK W-4	4.35	42 60	01 02 04
34005 Cherokee	OK W-5	7.85	42 60	01 02 04
34006* Cherokee	OK W-6	1.75	42 60	01 02 04
34007* Cherokee	OK W-7	1.99	42 60	01 02 04
34008* Cherokee	OK W-8	4.72	41 60	01 02 04
34009 Cherokee	OK W-9	8.50	42 60	01 02 03 04
34010 Cherokee	OK W-10	1.68	60 67	05 06 07 08 09 10 11
34011 Cherokee	OK W-11	2.12	60 67	05 06 07 08 09 10 11
34012 Cherokee	OK W-12	1.68	60 67	05 06 07 08 09 10 11
34013* Cherokee	OK W-13	1.99	60 67	05 06 07 08 09 10 11
34014 Cherokee	OK W-14	2.16	60 67	05 06 07 08 09 10 11
34015 Cherokee	OK W-15	2.15	60 67	05 06 07 08 09 10 11
35001* Guthrie	OK W-1	33.40	32 53	01 02
35002* Guthrie	OK W-2	3.21	31 51	01 02
35003* Guthrie	OK W-3	3.13	30 51	01 02
35004* Guthrie	OK W-4	5.62	31 53	01 02
35005* Guthrie	OK W-5	5.28	31 47	01 02
35006* Guthrie 35007* Guthrie 35008* Guthrie 35009* Guthrie 35010* Guthrie 35011* Guthrie	OK W-II OK W-III OK W-IV OK W-V OK W-V	2.50 5.09 9.09 13.4 15.7 94.8	37 53 42 55 42 53 42 53 42 53 42 55	01 02 01 02 01 02 01 02 01 02 01 02 03
36001 Muskogee 36002 Muskogee 36003 Muskogee	OK W-II OK W-IV	14.5 65.4 24.9	39 47 39 45 38 47	01 02 01 02 01 02
37001* Stillwater	OK W-1	16.7	51	01 02
37002* Stillwater	OK W-3	92.	51 72	
37003* Stillwater	OK W-4	206.	51	
38001 Garland 38002 Garland 38003 Garland	TX W-III TX W-IV	25. 10.4 16.2	38 47 38 47 39 47	01 02 01 02 01 02
39001 Spur	TX W-1	11.53	27 45	01 02
39002 Spur	TX W-2	9.39	27 45	01 02
39003 Spur	TX W-3	11.71	27 44	01 02
39004 Spur	TX W-5	5.81	27 45	01 02
39005 Spur	TX W-6	5.32	27 45	01 02
39006 Spur	TX W-11	8.70	30 45	01 02
39007 Spur	TX W-12	8.41	30 45	01 02
39008 Spur	TX W-14	8.53	30 45	01 02
39009 Spur	TX W-15	8.50	30 45	01 02
40001 Tyler	TX W-2	9.15	43 44	01 02 03
40002 Tyler	TX W-3	7.94	32 42	01 02
40003 Tyler	TX W-4	6.05	31 42	01 02
40004 Tyler	TX W-5	1.57	32 42	01 02
41001 Vega	TX W-1	129.	38 43	01 02
41002 Vega	TX W-2	95.9	38 43	01 02 03

Table 2.--Index to information on experimental agricultural watersheds included in references 1-21 (Continued)

Water- Study lo	cation	Watershed	Area in	Record (19)	
ID Town	State	name/No.	acres ³	BE	(references with revised information underlined) 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21
42001 Riesel 42002* Riesel 42003* Riesel 42004* Riesel 42005 Riesel	TX TX TX TX	C D G	42. 579. 1,110. 4,380. 5,860.	38 43 38 37 38 37 43	01 02 01 02 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 01 02 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 01 02 03
42006* Riesel 42007* Riesel 42008* Riesel 42009 Riesel 42010* Riesel		W-1 W-2 W-6 W-8 W-10	174. 130. 42.3 40.4 19.7	37 37 39 38 43 38	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 01 02 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 01 02 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 01 02 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 01 02 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21
42011* Riesel 42012* Riesel 42013* Riesel 42014* Riesel 42015* Riesel	ΤX	Y Y-2 Y-4 Y-6 Y-7	309. 132. 79.9 16.3 40.	37 39 39 39 39	01 02
42016* Riesel 42017* Riesel 42018 Riesel 42019 Riesel 42020 Riesel	TX TX TX	Y-8 Y-10 SW-2 SW-3 SW-5	20.8 18.6 2.7 3.09 3.09	39 38 38 43 39 43 38 43	01 02
42021 Riesel 42022 Riesel 42023* Riesel 42024* Riesel 42025 Riesel	TX TX TX	SW-6 SW-7 SW-11 SW-12 SW-13	3.04 3.15 2.66 2.90 3.19	38 43 38 43 38 38 38 43	01 02 01 02 01 02 01 02 01 02 04 05 06 07 <u>08</u> 09 10 11 12 13 14 15 16 17 18 19 20 21 01 02
42026 Riesel 42027 Riesel 42028* Riesel 42029 Riesel 42030 Riesel	TX TX	SW-14 SW-16 SW-17 SW-18 Z	3.02 3.17 2.99 3.04 310.	39 43 37 43 39 38 43 39 43	01 02 01 02 01 02 01 02 01 02 01 02 01 02
42031* Riesel 42032* Riesel 42033* Riesel 42034* Riesel 42035* Riesel	TX TX	P-1 P-2 P-3 P-4 SW-19	.24 .24 .24 .24 3.25	38 68 38 68 38 68 38 68 70	05 06 07 08 09 10 11 12 05 06 07 08 09 10 11 12
42036* Riesel 42037* Riesel 42038* Riesel 42039* Riesel 42040* Riesel	T X T X T X	SW-20 Y-13 Y-14 W-12 W-13	3.21 11.3 5.6 9.9 11.3	70 69 69 69	14 15 16 17 18 19 20 21 13 14 15 16 17 18 19 20 21 13 14 15 16 17 18 19 21 13 14 15 16 17 18 19 20 21 13 14 15 16 17 18 19 20 21
43001 Hays 43002 Hays	KS KS	6L AG	2.85 1.61	34 38 32 47	01 02 01 02
44001* Hastings 44002* Hastings 44003* Hastings 44004* Hastings 44005* Hastings	NE NE NE NE	W-3 W-5 W-8 W-11 1-H	481. 411. 2,086. 3,490. 3.62	38 67 39 67 39 67 39 67 39 67	01 02 03 04 05 06 07 08 09 10 11 01 02 04 05 01 02 03 04 05 06 07 08 09 10 11 01 02 04 05 06 07 08 09 10 11 01 02 04 05 06 07 08 09 10 11
44006* Hastings 44007* Hastings 44008* Hastings 44009* Hastings 44010* Hastings	NE NE NE NE	2-H 3-H 4-H 5-H 6-H	3.40 3.77 3.64 4.02 4.01	39 67 39 67 39 67 39 67 39 67	01 02
44011* Hastings 44012* Hastings 44013* Hastings 44014* Hastings 44015* Hastings	NE NE NE NE	7-H 8-H 9-H 10-H 11-H	4.26 3.97 3.78 3.98 3.85	39 67 39 67 39 54 39 54 39 54	01 02
44016* Hastings 44017* Hastings 44018* Hastings	NE	12-H 13-H 14-H	3.66 3.41 3.35	39 54 39 54 39 54	01 02 01 02 01 02

Table 2.--Index to information on experimental agricultural watersheds included in references 1-21 (Continued)

Water- shed	Study locati	on	Watershed	Area in	in (19)																			
ID code ²	Town Sta	te	name/No.	acres ³	B E	01	02				_											 	d) 19-2	20. 2
							02					07	00	0			12	13	14	13	10	 	13 4	
44020* 44021* 44022*	Hastings Hastings Hastings Hastings Hastings	NE NE NE NE NE	15-H 16-H 17-H 18-H 19-H	3.62 3.57 3.96 3.74 4.10	39 54 39 54 39 54 39 67 41 54	01 01 01	02 02 02 02 02		04	05	<u>06</u>	07	08	0:	9 10) 11								
44025* 44026* 44027* 44028*	Hastings Hastings Hastings Hastings Hastings Hastings	NE NE NE NE NE NE	20-H 21-H 22-H 23-H 24-H 25-H	4.05 3.94 3.83 4.20 4.21 2.24	41 54 41 54 41 67 41 67 41 54 63 67	01 01 01	02 02 02 02 02					07	08	0	9 10) (
45002* 45003*	Safford Safford Safford Safford	AZ AZ	W - I W - I V W - V	519. 682. 764. 723.	39 76 39 76 39 76 39 76	01 0 1	02 02 02 02	03	04 04	05 05	06 06		90 80	0	9 1 0 9 1 0) 11) 11) 11) 11								
46002 46003	Colorado Spr. Colorado Spr. Colorado Spr. Colorado Spr.	C0	W-2 W-3	10.6 39.7 35.4 35.6	38 46 38 46 38 46 38 46	01 01	02 02 02 02	03																
47002*	Albuquerque Albuquerque Albuquerque	MM	W-I W-II W-III	246. 40.5 176.	39 76 39 76 39 76	01	02 02 02	03	04	05	06	07	30	0	9 11) 11) 11) 11	12							
48001 48002 48003 48004 48005 48006	Mexican Spr. Mexican Spr. Mexican Spr. Mexican Spr. Mexican Spr. Mexican Spr.	NM NM NM	W-1 W-2 W-3 W-6 W-7 W-8	187. 610. 1,325. 5,550. 8,495. 20,910.	38 42 37 42 38 42 37 42 38 42 37 42	01 01 01 01	02 02 02 02 02 02 02	03																
48007 48008 48009 48010 48011 48012	Mexican Spr. Mexican Spr. Mexican Spr. Mexican Spr. Mexican Spr. Mexican Spr.	MM MM MM MM		17,220. 46,080. 2,550. 3,360. 3,560. 4,740.	37 42 37 39 37 39 37 39 37 38 37 39	01 01 01 01	02 02 02 02 02 02 02	03																
49001 49002 49003	Santa Fe Santa Fe Santa Fe		W - I W - I I W - I I I	141. 790. 51.6	39 48 39 48 39 48	01	02 02 02	03																
50001	Placerville	CA	W-1	41.	35 44	01	02	03																
51001 51002 51003 51004 51005	Santa Paula Santa Paula Santa Paula Santa Paula Santa Paula	CA CA CA CA	W-1 W-3 W-4 W-5 W-6	413. 106. 44.4 55.1 163.	38 42 38 42 38 42 38 42 38 42	01 01 01	02 02 02 02 02																	
51006 51007 51008 51009	Santa Paula Santa Paula Santa Paula Santa Paula	CA CA CA	H.B.R. L.A. H.P.R. H.A.B.	735. 1,607. 1,832. 5,939.	36 42 34 40 34 43 34 37	01 01	02 02 02 02																	
52001 52002	Sebastopol Sebastopol	CA CA		83. 56.	36 43 36 40		02 02	03																
53001	Vacaville	CA	W-I	40.	37 42	01	02																	
54001 54002 54003 54004	Watsonville Watsonville Watsonville Watsonville	CA CA CA	W-2	16.8 18.5 27.4 10.1	38 42 38 42	01 0 1	02 02 02 02	03																
55001 55002	Emmett Emmett	ID ID	W-1 W-2	219.4 69.4	38 41 38 41		02 02	03																

Table 2.--Index to information on experimental agricultural watersheds included in references 1-21 (Continued)

rlined) 7 18 19 20 21
18 19 20 21 18 19 20 21
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7 18
7 18
7 18
7 18 19 20 21 7 18 19 20 21 7 18 19 20 21 7 18 19 20 21
7 18 19 20 21 7 18 19 20 21 7 18 19 20 21 7 18 19 20 21
7 18 19 20 21
7 7 7 7777

Table 2.--Index to information on experimental agricultural watersheds included in references 1-21 (Continued)

Water- shed	Study lo	cation	Watershe	Area d in	Record (19)	
ID code ²	Town	State	name/No.	acres ³	B E	(references with revised information underlined) 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 2
65007 65008 65009 65010 65011	Newell Newell Newell Newell	SD SD SD SD SD	W-7 W-8 W-9 W-10 W-11	160. 160. 815. 280. 160.	58 73 58 61 58 61 58 61 58 61	04 05 06 07 08 09 10 11 12 13 14 15 16 04 05 04 05 04 05 04 05 04 05
65012 65013 65014 65015 65016	Newell Newell Newell Newell Newell	SD SD SD SD SD	W-12 W-13 W-14 W-15 W-16	90. 160. 35. 115. 13,000.	58 73 58 73 58 73 58 73 58 61	04 05 06 07 08 09 10 11 12 13 14 15 16 04 05 06 07 08 09 10 11 12 13 14 15 16 04 05 06 07 08 09 10 11 12 13 14 15 16 04 05 06 07 08 09 10 11 12 13 14 15 16 04 05 06 07 08 09 10 11 12 13 14 15 16 04 05
66002* 66004*	Moorefiel Moorefiel Moorefiel Moorefiel	d WV d WV	W-1 W-2 W-4 W-5	8.57 9.73 6.32 9.55	58 67 58 67 58 67 58 67	04 05 06 07 08 09 10 11 04 05 06 07 08 09 10 11 04 05 06 07 08 09 10 11 04 05 06 07 08 09 10 11
67002* 67003* 67004*	N. Danvil' N. Danvil' N. Danvil' N. Danvil' N. Danvil'	le VT le VT le VT	W-1 W-2 W-3 W-4 W-5	10,610. 146. 2,067. 10,752. 27,469.	58 76 58 78 60 60 74 60 79	04 05 06 07 08 11 12 13 14 15 16 17 04 05 06 07 08 11 12 13 14 15 16 17 05 06 07 08 11 12 13 14 15 16 17 11 12 13 14 15 16 17 05 06 07 08 11 12 13 14 15 16 17
68002* 68003*	Reynolds Reynolds Reynolds Reynolds	ID ID ID	W-1 W-2 W-3 W-4	57,700. 8,990. 7,846. 13,453.	63 65 66 67	07 08 09 10 11 12 13 14 15 16 17 18 19 20 2 09 10 11 12 13 14 15 16 17 18 19 20 2 10 11 12 13 14 15 16 17 18 19 20 2 11 12 13 14 15 16 17 18 19 20 2
68012* 68013*	Reynolds Reynolds Reynolds Reynolds	ID ID ID	W-11 W-12 W-13 W-14	306. 205. 100. 33.	67 78 67 77 63 67	11 12 13 14 15 16 17 18 19 20 2 11 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16 17 18 19 20 2 11 12 13 14 15 16 17 18 19 20 2
	Chickasha Chickasha	0K 0K	100 2, 200(d)2,	339,800. 612,500.	61 79 61 75	06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 2 06 07 08 09 10 11 12 13 14 15 16 17 18
69004*	Chickasha	OK	400(d)2,		61 68	06 07 08 09 10
69005*	Chickasha	OK	500(d)2,		64 78	08 09 10 11 12 13 14 15 16 17 18 19 20 2
69006*	Chickasha	0K	600(d)3,		63 72	07 08 09 10 11 12 13 14
69007*	Chickasha	OK	700(d)3,		61 78	06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 2
69009* 69010*	Chickasha Chickasha Chickasha Chickasha	0K 0K 0K 0K	(e) 611 612 111 131	50,830. 4,845. 563. 16,634. 25,660.	61 74 61 74 62 78 62 78	06 07 08 09 13 14 15 16 17 18 06 07 08 09 10 11 12 13 14 15 16 17 18 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 2 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 2
69013* 69014* 69015*	Chickasha Chickasha Chickasha Chickasha Chickasha	OK OK OK OK	411 511 110 522 512	33,330. 38,020. 25,020. 132,990. 22,530.	62 74 62 78 63 78 63 78	06 07 08 09 10 11 12 13 14 15 16 17 18 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 2 07 08 09 10 11 12 13 14 15 16 17 18 19 20 2 07 08 09 10 11 12 13 14 15 16 17 18 19 20 2 07 08 09 10 11 12 13 14 15 16 17 18 19 20 2
69018* 69019*	Chickasha Chickasha Chickasha Chickasha Chickasha	0K 0K 0K 0K 0K	621 121 513 514 5141	21,310. 131,780. 12,314. 7,225. 4,064.	63 63 74 65 78 67 78 67 78	07 08 09 10 11 12 13 14 15 16 17 18 19 20 2 07 08 09 10 11 12 13 14 15 16 17 18 09 10 11 12 13 14 15 16 17 18 19 20 2 11 11
69022 69023 69024 69025 69026	Chickasha Chickasha Chickasha Chickasha Chickasha	0K	5142 5143 5144 5145 5146	360. 485. 1,456. 253. 762.	67 74 67 74 67 78 67 78 67 78	11 11 11 11 11
69028* 69030*	Chickasha Chickasha Chickasha Chickasha	0K	311 515 C-1 C-2	15,206. 1,657. 17.8 32.5	67 78 73 65 76 62 75	11 12 13 14 15 16 17 18 19 20 2 17 18 19 20 2 09 10 11 12 13 14 15 16 17 18 19 20 09 10 11 12 13 14 15 16 17 18

Table 2.--Index to information on experimental agricultural watersheds included in references 1-21 (Continued)

Watershed	Study location	on	Watershed	Area 1 in	Record ⁴ (19)	Index to information in reference
ID	Town Sta	te	name/No.	acres ³	B E	(references with revised information underlined)
code ²						01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21
69032* 0	Chickasha	OK	C-3	44.3	65 76	09 10 11 12 13 14 15 16 17 18 19 20
	Chickasha	0K	C-4	29.9	65 76	09 10 11 12 13 14 15 16 17 18 19 20
	Chickasha		C-5	12.8	65 76	09 10 11 12 13 14 15 16 17 18 19 20
	Chickasha Chickasha		C-6 C-7	13.0 26.5	65 76 65 76	09 10 11 12 13 14 15 16 17 18 19 20 09 10 11 12 13 14 15 16 17 18 19 20
	Chickasha Chickasha	UK OK	C-8 R-1	27.3 17.8	65 76 62 74	09 10 11 12 13 14 15 16 17 18 19 20 09 10 11 12 13 14 15 16 17 18
	Chickasha		R-2	24.1	62 74	09 10 11 12 13 14 15 16 17 18
	Chickasha		R-3	25.8	62 74	09 10 11 12 13 14 15 16 17 18
69041 0	Chickasha	OK	R-4	18.1	62 74	09 10 11 12 13 14 15 16 17 18
	Chickasha		R-5	23.7	66 78	10 11 12 13 14 15 16 17 18 19 20 21
	hickasha	0K		27.2	66 78	10 11 12 13 14 15 16 17 18 19 20 21
	Chickasha Chickasha		R-7 R-8	19.2 27.6	66 78 66 78	10 11 12 13 14 15 16 17 18 19 20 21 10 11 12 13 14 15 16 17 18 19 20 21
70001 * S	Conora	TV	W-14	30,720.	61 73	11 12 13 14 15 16
70001* S			S-9	1,774.	61 73	11 12 13 14 15 16
70003* S		TX	S-10	5,392.	61 73	11 12 13 14 15 16
70004* S				10,787.	61 73	11 12 13 14 15 16
70005* S	Sonora	ΤX	S-12	2,801.	61 73	11 12 13 14 15
70006* S			S-13	686.	61 73	11 12 13 14 15 16
70007* S			W-1 W-2	10.2	63 75 65 75	11 12 13 14 15 16
70008* S 70009* S			W-2 W-3	8.6 6.7	65 75	11 12 13 14 15 16 11 12 13 14 15 16
70010* S			W-4	4.5	66 75	11 12 13 14 15 16
70011* S	Sonora	TX	W-5	7.2	66 75	11 12 13 14 15 16
70012* S	onora	ΤX		6.9	66 75	11 12 13 14 15 16
70013* S	Sonora	TX	W-7	12.2	65 73	11 12 13 14 15 16
71001* 1			W-1	74.5	64	08 09 10 11 12 13 14 15 16 17 18 19 20 21
71002* T			W-2	82.8	64 64	08 09 10 11 12 13 14 15 16 17 18 19 20 21
71003* T 71004* T			W-3 W-4	107. 150.	64	08 09 10 11 12 13 14 15 16 17 18 19 20 21 08 09 10 11 12 13 14 15 16 17 18 19 20 21
71005* T			W-5	389.	63 73	08 09 10 11 12 13 14 15
72001 * C	ottonwood	S0	H-2	2.13	63 73	09 10 11 12 13 14 15 16
	ottonwood		L-2	2.38	63 73	09 10 11 12 13 14 15 16
72005* C	ottonwood	S0	M-1	2.35	63 73	09 10 11 12 13 14 15 16
73002* F	ort Staunton	NM	7302	32.2	66	10
74002* T		GA	W-TB	82,624.	69	19 20 21
74003* T	ifton		W-TN	3,872.	68	19 20 21
74004* T			W-TO	3,936.6	68	19 20 21
74005 T				28,403.8 12,358.	68 68	19 20 21 19 20 21
74007* T	ifton	GA	W-TJ	5,466.	70	10 20 21
74007* T		GA	W-10 W-TK	4,141.	68	19 20 21 19 20 21
74009* T			W-TM	672.	68	19 20 21
75001 * A	Moskie	NC	W-A1	36,480.	64 74	09 10 11 12 13 14 15 16
75002* A	hoskie	NC	W-A2	15,360.	64 74	09 10 11 12 13 14 15 16
75003* A		NC	W-A3	2,368.	64 74	09 10 11 12 13 14 15 16
75004* A	mosk 1e	NC	W-A4	1,664.	64 74	09 10 11 12 13 14 15 16

For description of references 1-21, see page 1 and table 1.

2 * = streamflow data for all or part of record period are stored in ARS Water Oata Bank.

3 (a) area changed from 63,170 acres (1-1-1967).
(b) area changed from 10,050 acres (1-1-1967).
(c) area changed from 22,656 acres (1-1-1967).
(d) total drainage area.
(e) total study area.

4 B = year (19--) record began.
E = year (19--) record ended.

In the table for the current <u>calendar</u> year, the <u>precipitation</u> (P) in inches is given in the monthly columns and the yearly total in the last column, headed <u>annual</u>. In the line below, the corresponding <u>runoff</u> (Q) in inches is similarly given for each month and the total for the year. For some watersheds, data are included for years prior to the current year. Underneath, in two lines, are given the (P) and (Q) station average amounts (STA AV) by months, with average annual total for the period of record.

In the second table, entitled ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS, data are also given for the calendar year listed in the first column. Under the maximum discharge heading, the date column shows the month and day that the instantaneous peak in inches per hour occurred. In computing this rate, corrections were made, where needed, for any significant pondage above the runoff-measuring device. Under the maximum volume heading, the date refers to the month and day on which the interval began; for example, if the interval began August 30 at 2359, the entry in the date column would be 8-30. The depths for 1 hour to 8 days are the annual maximum values recorded, without regard to entire clock hours or days; thus, if the 6-hour interval began at 1332, the interval would end exactly 6 hours later at 1932. The volume given is in inches of average depth over the watershed for each of the seven selected time intervals (1, 2, 6, and 12 hours and 1, 2, and 8 days). In the last section of the table, the maximum discharges and depths for the various periods are given under MAXIMUMS FOR PERIOD OF RECORD.

Notes and footnotes below the first two tables include (1) a general statement as to watershed conditions and other physical changes for the period covered; (2) location (publication) where the most recent map may be found; (3) length of precipitation and runoff records; and (4) location of the nearest longtime National Weather Service precipitation station together with the record length.

For some watersheds, tables of daily air temperature (maximum and minimum in degrees Fahrenheit), daily precipitation (inches), and mean daily discharge (cfs) are next, with explanation of the data in footnotes at the end of each table. The multiplier to convert mean daily discharge in cubic feet per second to inches per day is given as the first note following the mean daily discharge table. Cooperating agencies are identified at the bottom of the first page for each watershed just above the index page number.

If no daily tables are given, the tabular data for selected runoff events begin in the remaining space on the first page and are carried forward on continuation sheets (or pages) until completed. In general, the selected runoff events were those in which runoff was produced by a relatively uniform rainfall excess of short duration. The information for each event includes tabulation of (1) antecedent rainfall and runoff that occurred on the day of the event prior to the beginning of the event, (2) rainfall intensities and accumulated amounts for the event, and (4) specific watershed conditions at the time of the event.

Simple graphs of rainfall and runoff rates for all events follow the tabular data. Runoff rates expressed in both cubic feet per second (CFS) and inches per hour (IN/HR) are shown on the graphs. Some very low runoff rates expressed in IN/HR are given in the "E" format, such as 7.25 E-4, which is equal to 0.000725 IN/HR.

Maps follow the graphs unless previously published in references 3-20 or unless shown herein on the map of another watershed.

In the notes at the bottom of the first page for runoff events, the multiplier to convert runoff rates in cubic feet per

second to inches per hour is given. The notes on continuation pages contain the statement on the multiplier and similar explanations of the data on each page.

New Watersheds

For the watersheds installed in recent years and not reported previously (see table 3), the presentation begins with the watershed description in the upper part of the first page. The explanations and definitions on which the description is based are given in the next section.

The first line, centered at the top of the sheet, indicates the project location, which is the nearest city or town, the number or name of the watershed used locally, and the latitude and longitude of the stream gage. The descriptive material is then given under the 12 major topics listed generally down the left side of the sheet: Location, Area, Slopes, Soils, Erosion, Land Capability, Watershed Geology, Surface Drainage, Character of Flow, Instrumentation, Watershed Conditions, and Generally Represents.

After this description, the tabular data are summarized in the first two tables and data are included as previously described for contributing watersheds. The tabular data for daily air temperature, precipitation, and discharge, if presented, precede the tabular data for SELECTED RUNOFF EVENTS. The rest of the material of this series for this particular watershed follows in the same order as previously indicated.

WATERSHED DESCRIPTIONS

The following definitions and explanations were used in describing watershed location, watershed characteristics, instrumentation, land management, and recommended area of application of the hydrologic data.

LOCATION gives county and State, distance and direction of the runoff gaging station from the nearest city or town, the major river basin in which it lies, and latitude and longitude. When two or more basins are involved, the tributary or subbasin is mentioned first, followed by the major basin.

AREA of watershed is given in acres if less than 640 acres and in both acres and square miles if more than 1 square mile. If areas are revised, additional values are included with notes identifying the date of change.

SLOPES are given in terms of the ranges commonly used in survey work in the locality. The percentages of the watershed lying in each slope class are listed. As an example, 8% is in 0-2% class means that 8 percent of the watershed area has slopes ranging from 0 to 2 percent.

SOILS are described briefly, according to definitions from the U.S. Department of Agriculture's "Soil Survey Manual," Agriculture Handbook 18, published in 1951. Soil descriptions are given for the new watersheds. Soil-type name consists of the soil series plus the textural class, determined primarily by the texture of the upper part of the soil profile.

Soil texture refers to the relative proportions of the various size groups (or separates) of individual soil grains in a mass of soil. It refers specifically to the proportions of clay, silt, and sand less than 2 mm in diameter. The various classes of texture in order of increasing percentages of the smaller size groups are (1) sand, (2) loamy sand, (3) sandy loam, (4) loam, (5) silt loam, (6) silt, (7) sandy clay loam, (8) clay loam, (9) silty clay loam, (10) sandy clay, (11) silty clay, and (12) clay. In some of the descriptions the broader classification of coarse, moderately coarse, medium, moderately fine, or fine has been used—the coarse soils are the sands and the fine soils the clays.

Soil structure refers to the aggregation of primary soil particles into compound particles, or clusters of primary particles, that are separated from adjoining aggregates by surfaces of weakness. Structure grade, or the durability of the aggregates when subjected to disturbance, is described as structureless, weak, moderate, or strong. For some soils the structureless grade is described as massive, if coherent, or single grain, if noncoherent. The size of the aggregates is reported as very fine, fine, medium, coarse, or very coarse. Structure shape is given as being platy, prismatic, columnar, angular blocky, subangular blocky, granular, or crumb.

Permeability is the quality of a soil that enables it to transmit water or air. This quality is indicated by the terms very slow, slow, moderately slow, moderate, moderately rapid, rapid, or very rapid.

Internal soil drainage is the quality of a soil that permits the downward flow of excess water through it. Internal drainage is reflected in the frequency and duration of periods of saturation with water. It is determined by the texture, structure, and other characteristics of the soil profile and of underlying layers, and by the height of the water table, either permanent or perched, in relation to the water added to the soil. Internal drainage is described as none, very slow, slow, medium, rapid, or very rapid.

Soils may be grouped into soil drainage classes, based on observations and inferences used to obtain classes of runoff, soil permeability, and internal soil drainage. These classes are given in some soils descriptions to identify internal drainage. They are very poorly drained, poorly drained, imperfectly or somewhat poorly drained, moderately well drained, well drained, somewhat excessively drained, or excessively drained.

EROSION conditions on the watershed are described according to the following classification for water and wind erosion, also briefed from Agriculture Handbook 18. The percentage of the watershed in the following erosion classes is given.

Class 1.—The soil has a few rills or places with thin A horizons that give evidence of accelerated erosion, but not to an extent to alter greatly the thickness and character of the A horizon. Except for soils having very thin A horizons (less than 8 inches), the surface soil consists entirely of A horizon throughout nearly all the delineated areas. Up to about 25 percent of the original A horizon, or original plowed layer in soils with thin A horizons, has been removed from most of the area. This class also includes the areas with no erosion.

Class 2.—The soil has been eroded to the extent that ordinary tillage implements reach through the remaining A horizon or well below the depth of the original plowed layer in soils with thin A horizons. Generally the plowed layer consists of a mixture of the original A horizon and the underlying horizons. Mapped areas of eroded soil usually have patches in which the plowed layer consists entirely of the original A horizon and others in which it consists entirely of underlying horizons. Shallow gullies may be present. Approximately 25 to 75 percent of the original A horizon or surface soil may have been lost from most of the area.

Class 3.—The soil has been eroded to the extent that all or practically all the original surface soil, or A horizon, has been removed. The plowed layer consists essentially of materials from the B or other underlying horizons. Patches in which the plowed layer is a mixture of the original A horizon and the B horizon, or other underlying horizons, may be included within mapped areas. Shallow gullies, or a few deep ones, are common in some soil types. Approximately 75 percent of the original surface soil, or A horizon, and commonly part or all the B horizon, or other underlying horizons, have been lost from most of the area.

Class 4.--The land has been eroded until it has an intricate pattern of moderately deep or deep gullies. Soil profiles have been destroyed except in small areas between the gullies. Such land is not useful for crops in its present condition. Reclamation for crop production or for improved pasture is difficult, but may be practicable if other characteristics of the soil are favorable and erosion can be controlled.

Class +.- Recent alluvial and colluvial deposition.

LAND CAPABILITY is given as classified by Klingcbicl and Montgomery in U.S. Department of Agriculture's "Land-Capability Classification," Agriculture Handbook 210, published in 1961. The classification expresses the suitability of land for use without deterioration. The eight land-capability classes are distinguished according to the risk of land damage or difficulty of land use. Classes I-IV are suitable for cultivation and other uses, whereas classes V-VIII are not suitable for cultivation.

Class I.—Very good land for cultivation; nearly level and productive; not subject to erosion; needs only ordinary good farming methods.

Class II.—Good land for cultivation; mostly gently sloping; not more than moderately subject to erosion; some land may be rather wet; can be farmed safely with easily applied practices.

Class Ill.—Moderately good land for cultivation; mostly moderately sloping; some areas too wet or too dry; can be farmed safely with practical conservation measures carefully applied; usually a combination of two or more measures is needed.

Class IV.—Fairly good land, suitable for occasional cultivation; generally strongly sloping; often shallow or very sandy; often found in dry climate.

Class V.—Land very well suited for grazing or forestry; requires good range or woodland management.

Class VI.--Land well suited for grazing or forestry; steeply sloping land, or stony or shallow soil; eroded, droughty, or wet land; requires careful management.

Class VII.—Land fairly well suited for grazing or forestry; severely limited in use by such factors as very steep slope, shallow or droughty soil, wetness, severe erosion, or excessive salinity; requires very careful management.

Class VIII.—Land not suitable for cultivation, grazing, or forestry; may be useful for wildlife, recreation, or protection of water supplies.

WATERSHED GEOLOGY information, when available, for new watersheds is reported here. The parts of each watershed occupied by various geological formations or series are briefly described, together with strike and dip of the strata, thickness, and relative position, when known. Faults, perched water tables, outcrops, if present, and other details relating to the movement of water within the drainage area or affecting the hydrology of the watershed are described.

SURFACE DRAINAGE refers to the ease with which excess water flows from the watershed area. The length of the principal waterway is the distance from the gaging station to the most remote point on the watershed boundary, measured along the flood plain of the watercourse.

CHARACTER OF FLOW describes the flow of the principal watercourse with respect to permanence and space. The following definitions are from Meinzer's "Outline of Ground-Water Hydrology," U. S. Geological Survey Water-Supply Paper 494, published in 1923. As to permanence, streams may be divided into perennial, intermittent, and ephemeral.

A perennial stream, or stretch of a stream, flows continuously. Perennial streams are generally fed in part by springs, and their upper surfaces usually stand lower than the water table in the localities through which they flow.

Intermittent streams may be divided, with respect to their water source, into spring-fed intermittent streams and surface-fed intermittent streams. They also flow in direct response to precipitation.

A spring-fed intermittent stream, or stretch of a stream, flows only at certain times when it receives water from springs. The intermittent character of streams of this type is generally caused by fluctuations of the water table, whereby the stream channels stand sometimes below and other times above the water table. This is the ordinary type of intermittent stream.

A surface-fed intermittent stream, or stretch of a stream, flows during protracted periods when it receives water from some surface source, generally the gradual and long-continued melting of snow in a mountainous or other cold tributary area. The term may be arbitrarily restricted to streams or stretches of streams that flow continuously during periods of at least 1 month.

An ephemeral stream, or stretch of a stream, flows only in direct response to precipitation. It receives no water from springs and no long-continued supply from melting snow or other surface source. Its stream channel is at all times above the water table. The term may be arbitrarily restricted to streams or stretches of streams that do not flow continuously for as long as 1 month.

With respect to continuity in space, streams may be divided into continuous and interrupted streams. An interrupted stream contains (1) perennial stretches with intervening, intermittent, or ephemeral stretches or (2) intermittent stretches with intervening ephemeral stretches. These two classes of interrupted streams are designated, respectively, perennial interrupted streams and intermittent interrupted streams. A continuous stream does not have interruptions in space. It may be perennial, intermittent, or ephemeral, but it does not habitually have wet and dry stretches.

INSTRUMENTATION describes the type of runoff control or measuring device, number and type of precipitation gages, type of charts used, and snow courses, if employed.

WATERSHED CONDITIONS describe the general use and farm, forest, or range practices before the period of record and the conservation measures, crops, yields, and general cultural operations and practices during the period of record. Rotation crops are listed in the order grown. Operations are described with commonly used agricultural terms, and only those that appear to have a significant relationship to the hydrology of the watershed are mentioned.

GENERALLY REPRESENTS gives the broad area of application for which the data of the specific watershed are recommended. The land resource areas named are those delineated on the map titled "Location of Experimental Agricultural Watersheds of the Agricultural Research Service," on pages 20 and 21. Solid circles show the approximate locations of the continuing or new watersheds; open circles show approximate locations of the discontinued studies. For a few studies the circles indicate the locations of the project headquarters instead of the watershed locations. A larger index map with more detail is included in

For some studies there is an apparent contradiction between the watershed location on the maps and the descriptive information under Generally Represents. This is caused by the small scale of maps; it is difficult to show many small local variations in boundaries of the land resources areas. The descriptive statements, instead of the map location, should be the guide to the application of the data.

STANDARD SYMBOLS FOR TABULAR DATA

The following capital letters have been used as standard symbols throughout this publication to designate specific items or meanings:

Symbol Meaning

- E value is estimated or partially estimated.
- H precipitation in form of hail.
- precipitation in form of sleet or freezing rain.
- mixed precipitation in form of rain, snow, and
- precipitation in form of rain and snow.
- NR when used in place of value, "no record."
- P monthly or annual precipitation in inches. Q monthly or annual runoff in inches.
- RG rain gage, generally followed by gage number.
- S precipitation in form of snow.
- STA AV (or AVG) station average for period of record.
- T trace, indicates that the value is not large enough to round to the lowest significant digit. In some arrays a trace value is indicated by all zeros, with more than one zero located to the right of the decimal.
- Z indicates an accurately measured total for a series of days that has been equally divided among coded days.

Time-of-day symbols or designations \underline{a} , \underline{p} , \underline{m} , and \underline{n} used in previous publications through 1961 have been discontinued, and military time (0001 through 2400) has been substituted in subsequent publications. Unless stated otherwise, time used in tables is eastern, central, mountain, or Pacific standard, whichever applies to the given location.

PERSONNEL RESPONSIBLE FOR DATA PREPARATION

At each research location many individuals have contributed to the planning and establishment of the watershed and the collection, compilation, and analysis of the data. Some of those who were directly responsible for preparing the data and information for this report are the following:

Location
C.A. Burroughs, J.M. Sheridan, H.D. Wade, P. Yates. 8
A.P. Barnett, A.W. Thomas, M. Murphy 10
R.N. Weaver 16
L.A. Kramer, M. Mazzocco
T.J. Harlukowicz, V. Dreher 26
F.R. Crow, B. Wilson, W.R. Gwinn 37
C.W. Richardson, D.A. Wright
J.K. Mitchell
F. Lopez 63, 64
A.L. Huber, S. Jackson 68
D.E. Gregory, A.D. Nicks, R.R. Schoof, N.H. Welch 69
C.A. Burroughs, J.M. Sheridan, R.G. Williams,
P. Yates 74

ADDITIONAL PUBLICATIONS

In references 1 and 4-20 (see pp. 1 and 2), citations to other publications, which present watershed data and interpretations of results in various journals, bulletins, and periodicals, are given at the end of the introduction for many of the locations. A listing of publications resulting from related work follows. Unless otherwise noted, the publication year is 1977. The scope of the selected publications varies from a specific study to an overall program of hydrology.

- Amerman, C. R.
 - Tillage and hydrology. In Research Progress and Needs Conservation Tillage, Council Bluffs, Iowa, ARS-NC-57.
- Amerman, C. R., and E. J. Monke. Soil water modeling IL On sensitivity to finite difference grid spacing. Trans. ASAE 20(3): 478-484, 488.
- Asmussen, L. E.

The hydrology and hydrogeology of Ahoskie Creek Watershed, North Carolina: Data and analysis. U.S. Dept. Agr. Tech. Bull. 1563, 163 pp.

Asmussen, L. E., A. W. White, E. W. Hauser, and J. M. Sheridan.

Reduction of 2,4-D load in surface runoff down a grassed waterway. J. Environ. Qual. 6(2): 159-162.

Blaisdell, F. W.

Discussion of experimental investigation of flow over side weirs. ASCE Proc., J. Hydraul. Div., 103(HY9): 1107-1108.

Burford, J. B.

Hydrologic data sources. In Watershed Res. in Eastern North America-A workshop to compare results. Smithsonian Inst. Press IL 909-924.

Burwell, R. E., G. E. Schuman, H. G. Heinemann, and R. G. Spomer.

Nitrogen and phosphorus movement from agricultural watersheds. J. Soil and Water Conserv. 32(5): 226-230.

Carreker, J. R., S. R. Wilkinson, A. P. Barnett, and J. E. Box.

Soil and water management systems for sloping land. U.S. Dept. Agr. ARS-S-160, 76 pp.

Dean, J. D., and W. M. Snyder.

Temporally and areally distributed rainfall. ASCE Proc., J. Irrigation and Drainage Div., 103(1R2): 221-229.

Fink, D. H., and G. W. Frasier.

Evaluating weathering characteristics of water-harvesting catchments from rainfall-runoff analyses. Soil Sci. Soc. Am. J. 41(3): 618-622.

Fink, D. H., and G. W. Frasier.

Runoff evaluation of catchments at Granite Reef. 21st Annual Arizona Watershed Symp. Proc. Rept. No. 10,

Foster, G. R., and L. F. Huggins.

Deposition of sediment by overland flow on concave slopes. In Soil Erosion: Prediction and Control, Soil Conserv. Soc. Am. Spec. Publ. No. 21: 167-180.

Foster, G. R., and L. D. Meyer.

Soil erosion and sedimentation by water - An overview. Nat. Symp. Soil Erosion and Sedimentation by Water, ASAE Publ. 4-77: 1-13.

Foster, G. R., L. D. Meyer, and C. A. Onstad. A runoff erosivity factor and variable slope length exponents for soil loss estimates. Trans. ASAE 20(4): 683-687.

Frere, M. H., and O. D. Workman.

Water quality in the Texas Coastal Basins. U.S. Dept. Agr. ARS-S-163: 8 pp.

Grant, W. J., N. R. Kalloch, L. W. Palmer, and J. L. Gammon. Use of the Universal Soil Loss Equation in areawide planning. In Soil Erosion: Prediction and Control, Soil Conserv. Soc. Am. Spec. Publ. No. 21: 283-291.

- Heinemann, Il. G., and D. L. Rausch. Optimizing water quality using small watersheds. 32nd Annual Meeting Soil Conserv. Soc. Am. Proc., pp. 85-92.
- Hershfield, D. M.

Some tools for hydrometeorologists. Amer. Met. Soc. 2nd Conf. on Hydrometeorology, Toronto, Canada, pp. 79-82.

Humphreys, A. S.

Controlling sediment in surface runoff. Irrig. Age 12(1):

Humphreys, A. S., and J. A. Bondurant.

Cast-in-place 2-foot concrete trapezoidal flow-measuring flumes. U.S. Dept. Agr. Tech. Bull. 1566: 1-43.

Lane, L. J., and D. A. Woolhiser.

Simplifications of watershed geometry affecting simulation of surface runoff. J. Hydrol. 35: 173-190.

Lane, L. J., H. L. Morton, D. E. Wallace, R. E. Wilson and R. D. Martin.

Nonpoint-source pollutants to determine runoff source areas. Hydrology and Water Resources in Arizona and the Southwest, 7: 89-102.

- Lewis, R. B., V. L. Hauser, R. G. Menzel, and J. D. Ross. Runoff frequency from small storms and implications for water quality. Trans. ASAE 20(4): 661-665.
- McCuen, R. H., W. J. Rawls, G. T. Fisher, and R. L. Powell. Flood flow for ungaged watersheds: A literature evaluation. U.S. Dept. Agr. ARS-NE-86: 1-136.
- Menzel, R. G.

Sediment modeling for agricultural watersheds. 208 Planning for Texas Conf. Proc., pp. 118-125.

Moldenhauer, W. C.

Water erosion. In Research Progress and Needs Conservation Tillage, Council Bluffs, lowa, ARS-NC-57.

Onstad, C. A., and A. J. Bowie.

Basin sediment modelling using hydrological variables. In Erosion and Solid Matter Transport in Inland Waters Symp. Proc. 122: 191-202.

- Onstad, C. A., C. K. Mutchler, and A. J. Bowie. Predicting sediment yields. In Soil Erosion and Sedimentation, Proc. Nat. Symp. Soil Erosion and Sedimentation by Water, ASAE Publ. 4-77: 43-58.
- Onstad, C. A., R. A. Young, and W. C. Moldenhauer. Implementing soil loss limits: Some considerations. In Soil Erosion: Prediction and Control, Soil Conserv. Soc. Am. Spec. Publ. No. 21: 331-335.
- Osborn, H. B., and L. J. Lane.

Discussion: Augmentation of 1968-1972 Winter Storms in New Mexico. ASCE, J. Hydraul. Div. 103(11Y10): 1256-1258.

Osborn, H. B., and D. R. Davis.

Simulation of summer rainfall occurrence in Arizona and New Mexico. Hydrology and Water Res. in Arizona and the Southwest, 7: 153-162.

Osborn, H. B., and K. G. Renard.
Discussion of "Stochastic Considerations in Thunderstorm Modeling". ASCE, J. Hydraul. Div. 103(HY6): 667-670.

Raats, P. A. C.

Laterally confined, steady flows of water from sources and to sinks in unsaturated soils. Soil Sci. Soc. Am. J. 41(2): 294-304.

- Ree, W. O.
 - Performance characteristics of a grassed-waterway transition. U.S. Dept. Agr. ARS-S-158, 11 pp.
- Ree, W. O., and F. R. Crow.

Friction factors for vegetated waterways of small slope. U.S. Dept. Agr. ARS-S-151, 56 pp.

Ree, W. O., F. L. Wimberley, and R. F. Crow. Manning n and the overland flow equation. Trans. ASAE 20(1): 89-95.

Renard, K. G.

Past, present and future water resources research in arid and semiarid areas of the southwestern United States. Hydrol. Symp., Brisbane, Australia, 1-29.

Replogle, J. A.

Compensating for construction errors in critical-flow flumes and broad-crested weirs. In Flow Measurement in Open Channels and Closed Conduits, Nat. Bur. Stds. Spec. Publ. No. 484: 201-218.

Replogle, J. A.

Portable, adjustable flow-measuring flume for small canals. Trans. ASAE 20(5): 928-933.

Replogle, J. A.

Selecting and rating meters for open-channel flows. Water Management for Irrig. and Drain. Symp. Proc., ASCE, pp. 305-319.

Replogle, J. A.

Venturi flumes for circular channels. ASCE J. lrrig. and Drain. Div. 103(IR3): 385-387.

Richardson, C. W.

A model of stochastic structure of daily precipitation over an area. Colorado State Univ. Hydrol. Paper No. 91, 46 pp.

Robinson, A. R., and K. G. Renard.

ARS research on sediment transport, yield, and properties. Proc. of the ASCE Spring Convention and Exhibit, Dallas, Texas, pp. 1-22.

Robinson, A. R., and L. D. Meyer.

The Agricultural Research Service National Research Program on Soil Erosion by Water. In Soil Erosion: Prediction and Control, Soil Conserv. Soc. Am. Spec. Publ. No. 21: 90-96.

Rovey, E. W., and D. A. Woolhiser.

Urban storm runoff model. ASCE J. Hydraul. Div. 103(HY11): 1339-1351.

Rovey, E. W., D. A. Woolhiser, and R. E. Smith. A distributed kinematic model of upland watersheds. Colorado State Univ. Hydrol. Paper No. 93, 52 pp.

Schoof, R. R.

Computer program for reservoir-water budgets. U.S. Dept. Agr. ARS-S-161, 32 pp.

Simanton, J. R., II. B. Osborn, and K. G. Renard. Effects of brush to grass conversion on the hydrology and erosion of a semiarid rangeland watershed. Hydrology and Water Resources in Arizona and the Southwest, 7: 249-256.

Smith, R. E.

Field test of a distributed watershed erosion/sedimentation model. In Soil Erosion: Prediction and Control, Soil Conserv. Soc. Am. Spec. Publ. No. 21: 201-209.

Smith, R. E., and J. Y. Parlange.
Optimal prediction of ponding. Trans. ASAE 20(3): 493-496.

Stephenson, G. R.

Soil-Geology-Vegetation Inventories for Reynolds Creek Watershed. Univ. of Idaho Agr. Exp. Sta. Misc. Series No. 42, 73 pp.

Timmons, D. R., and R. F. Holt.

Nutrient losses in surface runoff from a native prairie. J. Environ. Qual. 6(4): 369-373.

- Timmons, D. R., E. S. Verry, R. E. Burwell, and R. F. Holt. Nutrient transport in surface runoff and interflow from an Aspen-Birch forest. J. Environ. Qual. 6(2): 188-192.
- Wauchope, R. D., K. E. Savage, and D. G. DeCoursey. Measurement of herbicides in runoff from agricultural areas. Southern Weed Sci. Soc. pp. 49-58.

Williams, J. R.

Sediment delivery ratios determined with sediment and runoff models. Symp. on Erosion and Solid Matter Transport in Inland Water Proc., pp. 168-179.

Williams, J. R.

Sediment modeling for agricultural watersheds. In Agr. and Silvicultural Nonpoint Source Water Poll. Control in Texas. 208 Planning for Texas Conf. Proc., pp. 108-117.

Williams, J. R., and H. D. Berndt.

Determining the Universal Soil Loss Equation's length-slope factor for watersheds. In Soil Erosion: Prediction and Control, Soil Conserv. Soc. Am. Spec. Publ. No. 21: 217-225.

Williams, J. R., and H. D. Berndt.

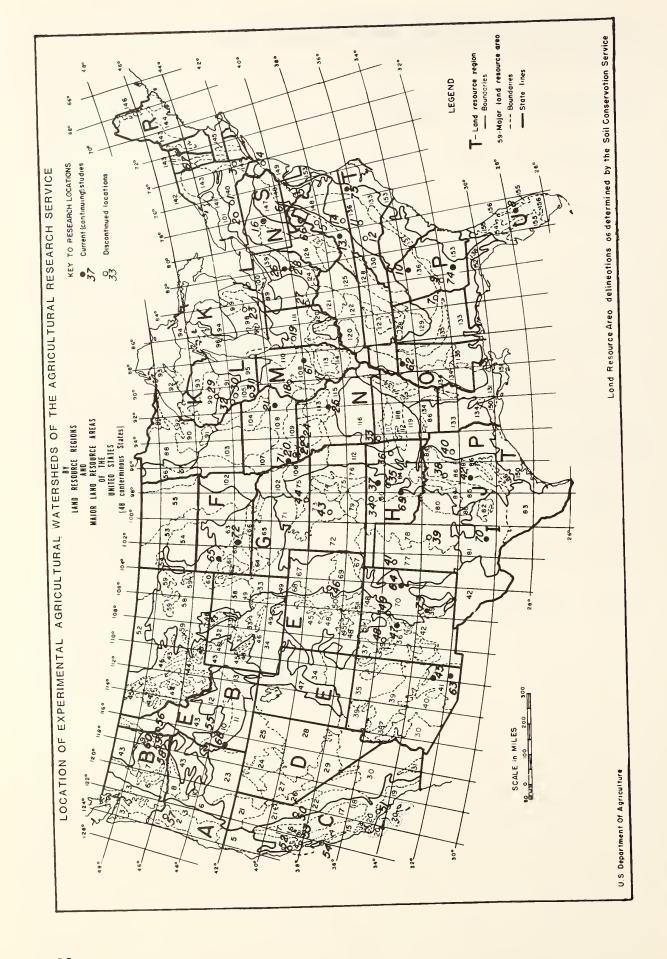
Sediment yield prediction based on watershed hydrology. Trans. ASAE 20(6): 1100-1104.

Wischmeier, W. H.

Use and misuse of the Universal Soil Loss Equation. In Soil Erosion: Prediction and Control, Soil Conserv. Soc. Am. Spec. Publ. No. 21: 371-378.

UNITED STATES INDEX MAP AND RELATED DATA

[Pages 18 through 20]



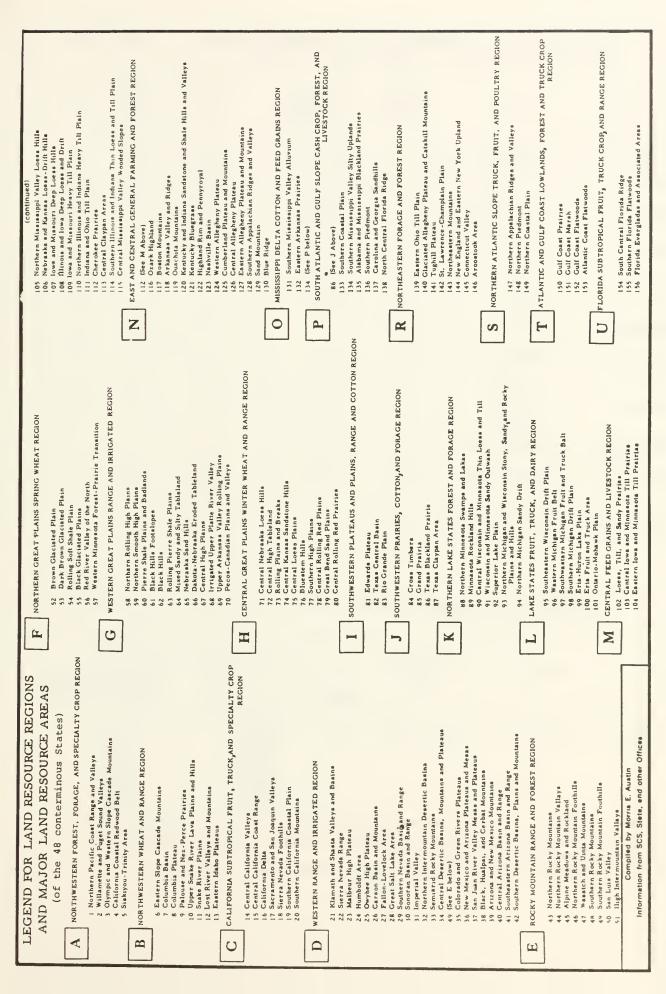


Table 3.--Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1977 and included in this publication

State		Assigned location number	Major land resource areal	Watershed units	Events reported	Pages
Arizona	Tombstone	63	D-41	8	15	172-221
Florida	Vero Beach	08	U-155	3	0	22-27
Georgia	Tifton		P-133 P-136	8 1	8 1	310-341 28-31
Idaho	Reynolds	68	D-23, D-25	7	6	225-252
Illinois	Monticello	61	M-108	2	2	166-171
Iowa	Treynor	71	M-107	4	0	302-309
Missouri	McCredie	25	M-113	1	0	36-37
New Mexico	Santa Rosa	64	G-70	1	1	222-224
Ohio	Coshocton	26	N-124	13	11	38-74
Oklahoma	Chickasha Stillwater		H-78, H-80, J-84 H-80	17 2	13 2	253-301 75-82
Pennsylvania	Klingerstown	16	S-147	1	1	32-35
Texas	Riesel (Waco)	42	J-86	20	20	83-165

¹See location map (p. 18) and legend (p. 19).

Table 4.--Watersheds, listed by State and locality, for which data were previously included but are not in this publication 1

State	Locality	Major land		Discontinued wa	atershed units ³
	20041703	area ²	Number	Record period	Assigned location and watershed number
Oklahoma	Chickasha	. H-78, H-80 Ј-84	6	1965-76 1965-76 1965-76 1965-76 1965-76 1965-76	69030 69032 69033 69034 69035 69036

 $^{^{1}}$ For discontinued watershed studies prior to 1977, see tables in previous publications. 2 See location map (p. 18) and legend (p. 19). 3 Data not available for this publication; may be included in future references.

WATERSHED DATA BY LOCATION NUMBER

AND

DECIMAL PAGING

[8.002-1 TO 74.009-3, A TOTAL OF 320 DATA SHEETS]

For location by States and Land Resource Areas

and Regions, see U.S. Index Map, page 18.

VEHC BEACH, FICRIDA (TAYLOR CEEFK) WATERSHED W-2

LCCATION: Okeechotee County, Florida. Runoff gaging site is about 3 mi. N. of City of Okeechotee on Cemetery Road. Taylor Creek empties into Take Ckeechobee. Tat. 27 deg. 17 min. 03 sec. N.; Icng. 80 deg. 49 min. 21 sec. R.

ARPA: 66960.00 acres 104.50 sg. miles

#C	FIBL	PRECIP:	ITATICN .	AND FUFC	FF (INCH	FS)		VEBO	FIACE,	FICHIDA	(TAYLOB	CREEK)	WATERSE	EC W-2
		Jan	F∈b	5ar	Apr	Bay	Jun	Jul	Lug	Se p	Cct	Bov	L€C	Arrnel
1977		1.45 9.130			0.24 0.003			3.52 0.039		8.83 2.171	1.32 0.069	5.09 0.284	3.54 1.575	42.22 4.615
I STA AV	P Q	1.75 0.425		2.89 0.871		4.90 0.369		6.51 2.059			3.79 1.744		1.60 0.248	48.11 14.291

watershed Conditions: Bange f forest, 35%; improved pasture, 47%; cropland, 4%; miscellaneous, 10%.

Maps: Topographic/Bydrologic (revised) - Bydrologic Data for Experimental Agricultural Matersheds in the United
States, 1971, USLA Misc. Ent. 1383, p. 08.002-3.

Frecipitation: Fecords began July 1355. Thiessen weighted using 7 gages.

Sunoff: Records began July 1555. Data furnished by U.S. Geological Survey.

Long-Term Frecipitation: National Weather Service records at Okeechobee Burricane Gate 6, Florida (gage discontinued Nov. 1971, afterwards use Ckeechobee 9 SW).

137	7 CAIL	Y AIR	IBEP	EBAIDI	FE (E									CH, F		DA (I	AYLC	E CEE	FK)	FAR	ERSB	ED W-	2
Day	Jan max mi	n ma	Feb x min		nin	åp max		ľa ra x		Ju		Ju max		Au max		S∈ max		Co max		No max		Dax.	
1	64 4		E NE	66	38	86	€0		52	90	70		66	94	71	€€	72	91	71		61	84	69
2	66 4°		E NE	70 78	47 53	83 86	60 84	€4 €€	5 E 8 O	80 84	68 70	86 90	6 E	92 95	73 75	85 82	70 72	92 88	73 £8	86 86	66 73	83 74	62 51
4	€0 4		E NE	έ0	68	88	66	82	64	82	70	88	86	93	72	86	72	83	65		75	80	66
5	72 4	2 B	E NE	86	68	86	54	84	€ 8	86	70	88	€ €	91	72	86	77	8.3	63	€4	64	€2	68
6	74 4		F NB	86	€8	€€	4€		$\epsilon\epsilon$	84	68	90	€ €	91	72	91	75	٤7	68	84	70	72	39
7 8	74 3 68 4		B NB	€€ 72	54 50	78 82	4 E 4 B	92 90	68 66	86 86	70 68	90 92	6 E	93 90	74 72	92 92	77 76	€€ €7	6€ 65	85 86	€3 68	€0 72	94 57
9	74 4		0 38	72	56	86	54		66	86	70	92	68	93	73	92	76	89	71		66	74	50
10	70 3		5 42	78	52	60	54	78	€€	38	70	94	8.8	91	72	92	74	90	75	86	50	67	47
11	60 3		4 46	٤2	67	78	52	74	67	90	72	92	68	83	71	93	75	8 9	71	€6	46	72	52
12	70 4		6 56	84	€4	78	58	70	64	92	71	92	70	87	71	93	72	8.9	66	69	44	75	5.8
13 14	70 5 76 5		4 62 8 52	86 80	65 54	90 82	5.8 5.6	80 84	48 50	92 9 0	66 68	9 0 89	71	89 88	72 72	93 93	7 2	75 73	50 49	7€ 76	51 54	7£ 80	70 70
15	68 5		0 52		54	€2	54	84	54	92	69	88	70	85	71	91	72	60	55	78	60	62	69
16	66 3		2 30	٤6	€3	٤4	48	84	5€	92	68	84	72	91	72	86	74	79	48	83	64	78	٤9
17	52 2		8 29	€2	€2	86	52	€ €	58	89	69	86	70	92	71	91	72	75	45	84	60	73	84
18 19	56 2 42 2		8 32	83 83	58 60	64 82	54 56	84 86	58 56	90 92	70 69	84 88	70 68	90 89	71 70	90 90	12 70	£1 81	55 54	82 82	61 63	73 70	47
20	54 2		4 30	83	€4	84	60	εє	5 €	εĒ	6 8	86	70	89	72	90	72	٤3	64	82	63	75	80
21	58 30		0 30	83	€4	84	€0	84	54	88	68	68	8 9	83	71	89	74	٤1	68	81	64	71	42
22	60 3: 64 3:		2 34	86	49	84	60		58	96	66	88	70	89 89	69 69	86	70	77	68	84	63	55	£€
25 24	64 3 74 4		0 62 8 38	76 76	42 54	84 86	69 56	9 2	64 66	92 94	70 72	82 88	72	87	72	88 £7	70 71	8 2 E 4	73 75	80 72	62 60	€£ 72	47 61
25	66 3	2 7	8 42	8.8	52	82	48	92	66	92	72	88	72	89	70	99	72	8.5	75	77	56	74	49
26	€0 3		2 54	78	48	80	46		60	94	71	92	73	89	73	90	70	84	65	64	38	51	35
27 28	70 4 80 5		6 62 38	03 03	50 54	60 84	42		€4 84	94	72 68	93 92	73 71	33 83	71 71	9 0 89	73 71	£ 1 8 1	5.8 60	71 78	52 59	5 € €0	32 39
29	68 3		2 30	E4	56	£6	46		64	92	70	93	71	64	71	91	70	81	64	76	68	69	49
30	64 3	Ē		84	57	86	4 8	90	66	92		91	73	87	72		70	84	66		66	73	60
31	NE N	F 		£4	ε2 			9 0				94	72 	67 	73 			€1 	56 			76 	57
AV.	68 3		3 44	81	57	£3		85			69	89	70		72	90			64		60		54
HEAN SIA AV	52.7 72 5		58.2 4 50		3.8 55	68 83		73 88		79 89			-5 74		-6 74	81 91			•5 66		•1 56	62 74	52

Station Averages: 22 yr beginning July 1, 1956. Lata from 5-3, readings taken daily.

Cooperative Fesesch Project of USDA, U.S. Geological Survey, University of Florida, IPAS Experiment Station, and South Florida Water Management District

1977	£ 3	ILY PERCI	FITETICN	(INCBES)			AEEC EEVC	B, FICEID	A (TAYLC	CFFFK)	WATERSEE	E 4-2
Cay	Jan	F∈b	Bar	Врг	tay	Jur	Jul	Aug	S∈p	Cct) C V	Lec
1 2	0.0 F	0.0 E	0.0	0.0	0.0 F	0.05	0.07 0.05E	0.0 E 0.24E	0.21	0.0	0.0	0.0 F
3	0.381	0.0 E	6.0	0.0	0.0 E	0.66P	0.061	0.95	2.11	0.52	0.16	0.0
4	0.0 F	0.24E	0.0	0.0	0.0	0.77E	0.10E	0.0	0.16	0.0	0.54	0.0
5	0.0	0.0 E	0.01	0.0	0.66	0.01E	0.0 F	0.0	0.31	0.6	0.33	0.0
6	0.0	0.0 E	0.0	0.0	0.02	0.672	0.0	0.02	0.01	0.0	0.0	1.41
7	0.0	0.0 E	0.19	0.0	0.05	0.0 F 0.46	0.01	0.03	0.0	0.0	0.0	0.0
9 2	0.0	0.0 F	0.0 0.0 E	0.0	0.68	0.03	0.0	0.0	0.01	0.0	0.0	0.36
10	0.06	0.0	0.301	0.0	0.06	0.02	80.0	0.02	0.0	0.16E	0.0	0.6
11	0.0	0.0	0.)3E	0.0	0.03	0.0	0.0	0.67	0.02	0.02E	0.0	0.0
12	C. C	0.0 E	0.0 F	0.04	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0
13	0.C	0.J E	0.0 E	0.04	0.0	0.0	0.0	0.07	0.01	0.0	0.0	0.02
14	0.0	0.0 E	0.0 E	0.0	0.0	0.04F	0.40	0.44	0.0	0.0	0.0	0.08F
15	0.32	0.J F	0.0 E	0.0	0.0	d u.u	0.33	U . 10	0.05	0.0	0.0	0.071
16	0.32	0.3	0.0	0.0	0.0	0.132	0.27	0.0	0.06	0 - 0	80.0	1.03E
17	0.0	0.0	0.0	0.0	0.0	0.C F	0.54	0.33E	6.0	0.0	0.0	0.24E
18	0.0	0.0	0.0	0.0 E	0.0	0.04E 1.07E	0.01	0.20F	0.37	0.0 0.0 P	0.0 0.C	0.0 F
19 20	0.01	0.0 0.01	0.0	0.0 F	0.0	0.19E	0.20	0.25F	0.09	0.0 F	0.0	0.0 F
21	0.0	0.0	0-0	0.0 F	0.0	0.40 E 0.0	0.28	0.23F 0.02F	0.48 0.06	0.0 E	0.02 0.0 E	0.01E
22 23	0.0	0.0	0.0	0.0 F 0.0 E	0.0	0.0	0.0	0.02F	0.02	0.11E	1.60F	0.0
24	0.0	0.35	0.0	0.10E	0.0 F	0.17	0.0	0.02E	0.44	0.402	0.11E	0.0 F
25	0.02	0.0	0.01	0.0 F	0.15E	0.0	0.0€	0.0 E	0.78	0.04E	0.0 F	0.20 F
26	0.0 F	0.0	0.0	0.9 E	2.62E	0.0	0.07	9.17E	6.23	0.02	0.0 E	0.0 E
27	0.0 F	0.0	0.0	0.0 E	0.36E	0.0	0.0	0.42E	0.15	0.0	0.0 E	0.0 E
28	0.14E	0.82	0.0	0.J E	0.22E	0.09	0.12	0.32F	0.0	0 - 0	0.0 F	0.0
2 9 3 0	0.01F		0.0	0.0 E	0.33E	0.0	0.0 0.07F	0.72E 0.37E	0.0	0.0	2.25E 0.0 E	0.0
31	0.0 F		0.0	U.U E	0.0 F	0.0	0.061	0.09	0.0	0.0	0.U F	0.0
							3.52		0 03		5.09	3.54
TCTAL STA AV	1.45 1.75	1.42	0.54 2.85	1.81	5.69 4.90	4.64 6.32	6.51	5.74 6.75	8.83 6.04	1.32 3.79	1.50	1.60

Gaging: Thiessen weighted rainfall, using 7 rair gages. Station Averages: 23 yr begirning July 1, 1555.

197	7	REAN DAIL	Y FISCHARG	P (CFS)			VESC FEAC	B, PICFI	DA (TAYLCI	CFEER)	WATEESB	EC 9-2
Day	Jan	P∈b	Bar	Apr	Eay	Jut	Jul	Aug	S€₽	Cct	l CV	Lec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.00	11.00	0.0	246.00
2	23.00	17.00	27.00	0.0	0.0	21.00	9.60	8.50	39.00	52.00	0.0	143.00
3	0.0	0.0	0.0	0.0	0.0	62.00	0.0	0.0	219.0U	19.00	0.0	86.00
4	22.00	13.00	8.10	0 - 0	0.0	71.00	0.0	0.0	852.00	15.00	12.00	€7.00
5	0.0	0-0	0.0	0.0	0.0	40.00	0.0	0.0	782.00	10.00	0.0	25.00
€	16.00	12.00	0.0	0.0	0.0	35.00	0.0	0.0	712.00	0.0	12.00	293.00
7	0.0	0.0	14.00	0.0	0.0	14.00	0.0	0.0	563.00	15.00	0.0	415.00
8	18.00	0.0	0.0	0.0	0.0	21.00	0.0	0.0	331.00	0.0	11.68	203.00
9	0.0	16.00	0.0	0.0	0.0	37.00	0.0	0.0	97.00	0.0	0.0	134.00
10	5 - 80	0.0	0.0	0.0	0.0	1€.00	9.40	0.0	21.00	12.00	0.0	153.00
11	17.00	0.0	14.00	0.0	0.0	12.00	0.0	5.10	23.00	0.0	0.0	111.00
12	0.0	13.00	0.0	0.0	0.0	0.0	0.0	0.0	14.00	12.00	0.0	80.00
13	0.0	1.20	0.0	0.0	5.00	0.0	0.0	0.0	13.00	0.0	11.00	43.00
14	16.00	0.0	0.0	0.0	0.0	12.00	0.0	17.00	26.00	0.0	0.0	69.00
15	0.0	0.0	30.00	0.0	0.0	0.0	0.0	14.00	14.00	0.0	0.0	34.00
16	51.00	16.00	0.0	0.0	0.0	0.0	0.0	0.0	11.00	0.0	0.0	186.00
17	21.00	0.0	0.0	0.0	0.0	0.0	9.10	0.0	22.00	11.00	0.0	645.00
18	17.00	0.0	0.0	0.0	0.0	0.0	0.0	8.40	14.00	0.0	13.00	451.00
19	0.0	0.0	0.0	0.0	0.0	12.00	0.0	0.0	82.00	0.0	0.0	28€.00
20	34.00	16.00	0.0	0.0	0.0	0.0	46.00	0.0	500.00	0.0	0.0	195.00
21	0.0	0.0	9.10	6.0	0.0	62.00	0.0	0.0	250.00	0.0	0.0	110.00
22	34.00	0.0	0.0	0.0	0.0	109.00	0.0	0.0	278.00	0.0	0.0	114.00
23	0.0	0.0	0.0	0.0	0.0	9.30	20.00	0.0	160.00	11.00	13.00	53.00
24	16.00	12.00	0.0	0.0	0.0	11.00	0.0	0.0	64.00	0.0	46.00	52.00
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	138.30	0.0	25.00	37.00
26	20.00	0.0	0.0	0.0	C. 0	22.00	0.0	0.0	297.00	12.00	14.00	46.00
27	0.0	0.0	0.0	8.10	8.80	0.0	15.00	0.0	194.00	0.0	12.00	50.00
28	12.00	15.00	0.0	0.0	0.0	0.0	0.0	0.0	195.00	0.0	0.0	31.00
29	0.0		0.0	0.0	4.10	0.0	0.0	0.0	83.00	0.0	110.00	21-00
30	0.0		0.0	0.0	0.0	0.0	0.0	44.00	32.00	9.90	518.00	20.00
31	45.00		14.00		18.00		0.0	14.00		0.0		20.00
FAB	11.80	4.69	3.75	0.27	1.29	16.98	3.52	3.58	203.33	€.25		142.74
BCBES	0.136	0.047	0.041	0.003	0.014	0.203	0.035	0.040	2.171	0.069		1.575
TA AV	0.425	0.388	0.871	0.172	0.365	1.537	2.059	2.029	2.423	1.744	1.627	0.241

Conversion Factor: CFS to IB/FAT, multiply by .00025585.
Station Averages: 23 yr beginning July 1, 1955.
Botes: Discharge is combined flow from Williamson Oitch and S-1 structure. Beasurements generally made once a week.
Data furnished by the O.S. Geological Survey.

WFRC BEACH, FICHIDA (TAYLOR CHIEK) WATERSHED W-3

LCCATION: Okeecholee County, Florida. Funoff gaging site is approximately 11 mi. (airline) N-N6 of City of Okeechobee on State Road #66. Northern reach of Taylor Creek Katershed. Lat. 27 deg. 23 min. 24 sec. N.; long. 80 deg. 53 min. 42 sec. N.

12224.00 acres 19.10 sg. miles AREA:

#C	BTHL	Y PRECIP	ITATION	ANC FURO	EP (INCH	ES)		VEBC	FFACH,	FICEILA	TAYLOR	CREEK)	WATEFSHEE	h-3
!		Jan	F∈b	Bar	γĽΙ	tay	Jun	Jul	≱ng	£€₽	Cct	Bc ♥	Dec	Apppal
1977	P Ç	1.37	1.85 0.041	0.53 2.054	0.30	4.84 0.301	5.88 0.094	4.46 0.042	5.81 0.067	8.11 0.656	1.15 0.225	5.63 0.292	3.51 1.123	43.44 2.667
SIA AV	P Ç	1.67	2.22 0.289	2.89 0.833	2.07 0.153	4.73 0.226	7.75 1.412	6.80 2.003	6.79 2.111	5.71 2.306	3.73 1.609	1.43 0.571	1.57 0.166	47.37 12.479

Natershed Conditions: Improved pasture, 59%; range 6 forest, 30%; crcpland, 1%; miscellaneous, 10%.

Maps: Topcgraphic/Bydrologic (revised) - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pub. 1383, p. 08.002-3.

Frecipitation: Fecords began July 1955. Thiessen weighted using 2 gages through Dec. 31, 1966; 3 gages beginning Jar. 1, 1967.

Funoff: Records began July 1955. Data furnished by U.S. Geological Survey.

Long-Term Frecipitation: National Weather Service records at Ckeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971, afterwards use Ckeechobee 9 SW).

1577	£ A	ILY PEPCI	MOITATION	(INCHES)			VEBC PEAC	H, FLCBID	A [TAYLO]	CBFFR)	WATEFSHE	E-8
Cay	Jan	P∈b	Mar	åpr	Bay	Jor	Jt1	Ang	Sep	Cct	Bcv	lec_
1 1 2 1 3 1 4 1 5 1	0.0 3.0 0.45 0.0	0.0 F 0.0 F 0.0 F 0.33F 0.9 F	0.3 3.7 3.0 0.3 3.04	0.0 3.0 9.0 0.0	0.0 0.0 0.0 0.0 0.57	0.10 0.05 1.02F 2.05E 0.06F	0.11 0.08E 0.16E 0.33E 0.0 E	0.0 0.06 0.16 0.0	0.05 1.10 2.25 0.06 0.03	0.0 0.0 0.32 0.0 0.0	0.0 0.0 0.14 0.60 0.09	0.0 0.02 0.0 0.0 0.0
6 7 8 9	0.0 0.0 0.0 0.0	0.0 E 0.0 E 0.3 E 0.0	0.0 0.25 0.0 0.1 E 0.24B	3.3 0.0 0.0 3.9 0.0	0.0 0.16 0.0 G.70 0.10	0.06E 0.0 E 0.21 0.01	0.9 0.96 0.0 0.0 0.27	0.01 0.06 0.27 0.0 0.08	0.06 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.26B	0.0 0.0 0.0 0.0	1.27 9.0 0.0 0.45 0.0
 11 12 13 14	0.0 0.0 0.0 0.0 0.0	0.0 0.0 E 0.0 E 0.0 E 0.0 F	0.0 E 9.0 E 9.0 B 0.0 E	0.0 0.0 0.94 0.0	0.04 0.0 0.0 0.0	0.0 0.0 0.0 0.0 F	0.0 0.0 0.0 0.53 0.49	9.46 9.68 0.06 0.28 0.28	0.0 0.0 0.0 0.0 0.13	0.0 E 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.01 0.20
1 16 17 18 19 20	0.26 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	9.0 0.0 0.0 0.0	0.0 9.0 0.0 0.0	0.0 E 0.0 E 0.13E 1.63E 0.34E	0.12 0.35 0.0 0.19 0.72	0.9 0.46 0.04 0.60 0.16	0.12 0.0 0.18 1.22 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.94 9.29 0.0 0.0
21 22 25 24 25	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.68 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.22 0.04	0.0 0.0 0.0 0.9 E 0.06 F	0.01E 0.0 0.0 0.0	0.05 6.0 0.0 0.0 0.0	0.02 3.0 0.0 0.0 F	0.35 0.06 0.0 0.43 1.63	0.0 0.0 0.04 0.47 0.06	0.0 0.0 2.29 0.06 0.0	0.0 0.0 0.0 0.0 0.33
26 27 28 29 30	0.0 F 0.0 F 0.05F 0.06F 0.0 F 0.16F	0.0 0.0 0.83	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	2.41E 0.28E 0.35E 0.13E 0.0 E 0.0 E	0.0 0.0 0.0 0.0	0.06 0.0 0.0 0.0 0.0	0.13E 0.74E 0.23E 0.24E 0.46E 0.13	0.40 9.04 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 2.45 0.0	0.0 0.0 0.0 0.0 0.0
ICTAL STA AV	1.37 1.67	1.85	0.53 2.89	0.30 2.07	4.64 4.73	5.68 7.75	4.46 6.80	5.81 6.75	8.11 5.71	1.15 3.73	5.63 1.43	3.51 1.57

Air Temperatore: See table for Matershed M-2, p. 08.002-1. Gaging: Thiessen weighted average of 3 rain gages. Station Averages: 23 yr begirning July 1, 1955.

Cooperative Research Project of USDA, U.S. Geological Survey, University of Florida, IFAS Experiment Station, and South Florida Water Management District

197	7	SEAN DAILY	CISCRAF	SE (CES)			VERC FFR	B. FICEI	CA (TAYIC	 F CFFFK)	BATFESFF	E 6-3
		Feb	Bar	AFI	Pay	Jur	Jol	Aug	Sep	Cct	BC V	Lec
Cay	Jan			* FT	y	301					BC 4	100
1	1.800	G.900	3.200	0.0	0.0	0.100	0.200	0.100	3.000	11.000	0.700	29.000
2	1.600	0.906	2.400	0.0	0.0	0.100	0.200	0.0	3.200	12.000	0.600	17.000
3	1.800	0.900	2.010	0.0	U.C	0.460	0.200	0.0	7.700	10.000	0.560	12.000
4	2.200	1.200	1.600	0.0	0.0	5.100	0.200	0.0	22.000	9.700	G.5GO	11.000
5	2.40)	1.600	1.430	0.0	0.0	7.000	0.100	0.0	17.000	9.300	0.500	12.000
٤	2.200	1.800	1.)00	0.0	0.0	3.000	0.100	0.0	12.000	٤.200	1.200	40.000
7	2.200	1.200	1.000	0.0	0.0	2. 800	0.200	0.0	12.000	7.200	1.400	33.000
Ė	1.807	1.000	1.003	0.0	0.0	2.400	C. 200	0.0	11.000	6.200	1.400	17.000
ç	1.600	0.500	1.000	0.0	0.0	2.400	0.100	0.0	11.000	5.600	1.400	14.000
10	1.400	0.600	1.000	0.0	0.0	1.880	0.100	0.0	11.000	4.860	1.260	18.000
11	1.200	0 . 43 A	1.238	0.0	C.0	1.203	0.160	0.0	11.000	4.600	1.200	14.000
12	1.200	0.400	1.200	0.0	0.0	0.700	0.0	0.0	12.000	4.100	1-400	12.000
13	1.000	0.400	1.000	3.0	0.0	0.500	0.2	0.5	11.000	3.200	1.400	11.000
14	1.000	0.300	1.000	0.0	0.0	0.400	0.0	0.0	10.000	2.800	1.400	11.000
15	1.600	0.400	1.230	0.0	0.0	0.300	0.0	0.300	9.300	2.400	1.200	11.000
12	1.000	0.400	1.730	0.0	0.0	9.200	0.0	3.200	3. 500	2.4011	1. 200	11.000
16	2.005	0.400	1.000	0.7	5.0	0.300	0.3	0.900	8.900	2.000	1.000	24.000
17	2.200	0.300	1.200	0.0	0.0	0.200	0.0	1.900	8.500	1.600	1.000	5€.000
16	2.000	0.300	1.090	0.0	0.0	0.200	0.500	2.000	7.500	1.200	1.000	42.000
19	1.900	0.300	0.900	0.0	0.0	0.200	2.000	1.600	8.500	1_000	1.060	30.000
20	1.400	0.300	0.700	0.0	0.0	0.600	2.200	2.200	12.003	0.900	1.000	22.000
21	1.400	0.300	0.500	ù.u	6.)	4.830	2.800	2.200	8.900	0.700	0.800	17.000
22	1.200	0.300	0.330	0.0	0.0	4.100	3.000	2.400	8.900	0.700	0.900	15.000
23	1.200	0.300	0.200	0.0	0.0	3.200	2.600	2.400	8.200	0.700	3.860	14.000
24	1.000	0.500	C.103	0.0	0.0	2.400	2.400	2.200	8.200	0.800	14.000	13,000
25	1.000	1.400	9.133	0.3	0.3	1.800	1.800	2.000	8.900	1.400	5.700	12.000
2€	1.000	1.20)	3.100	0.0	0.0	1.000	1.000	1.600	22.000	1.200	7.000	13.000
27	1.000	1.000	6.103	0.0	0.0	9.600	0.800	1.800	22.000	1.000	5.100	12.000
28	1.000	2.000	0.130	0.0	0.100	0.400	0.300	2.200	17.000	1.000	4.300	11.000
29	0.900	2.000	0.103	0.0	0.203	0.300	0.200	2.400	13.000	0.800	23.000	11.000
30	0.900		0.100	0.0	0.203	0.203	0.200	3.200	11.000	0.700	60.960	11.000
31	0.800		0.100	0.0	0.100	0.203	0.100	3.200	11.000	0.700	60.000	12.000
BEAR	1.458	0.754	0.857	0.0	0.019	1.610	0.890	1.110	11.223	2.790	5.000	18.613
INCHES	3.088	0.041	0.054	0.0	0.001	0.094	0.042	0.067	0.656	0.229	0.292	1.123
STA AV	0.382	0.289	0.833	0.153	0.226	1.412	2.903	2.111	2.306	1.609	0.571	0.186

Conversion Factor: CFS to IN/INY, multiply by .00199712. Station Averages: 23 yr begirning July 1, 1955. Botes: Data furnished by U.S. Geological Survey.

VERC BEACH, FICEIDA (WILLIAMSON DITCH) WATERSHED W-5

LOCATION: Okeechobee County, Florida; 125 feet upstream from control structure 7, 450 feet nestream from confinence with Taylor Creek, 3.6 miles north of town of Okeechobee, Elorida. Tat. 27 deg. 18 min. 40 sec. 8.; Long. 80 deg. 53 min. 44 sec. 8.

20992.00 acres 32.80 sg. miles

1 20	HIR	Y PRECIE	GOILATI	ANE SUNC	EF (INCE	ES)		VERC BE	ACE, FLC	SIDA (WI	LLIAMSCN	(HOFFIG	FATEFSE	EC %-5
		Jan	P∈h	far	AFI	∉a y	Jun	Jn1	Au 9	5€ F	Oct	∦ C ¥	D∈c	Annnal
1977	P Ç	1.59 0.143		0.53 0.071		6.55 0.074		3.46 0.085	6.20 0.157	8.91 2.779	1.34 0.134	4.95 0.300	3.29 1.320	43.10 5.742
STA AV	P Q	1.72	2.10 0.289	2.44 0.665	1.05 0.149	5.51 0.453	9.57 2.247		7.19 2.361	5.52 1.695	4.08 1.498	1.62 0.474	1.49 0.362	49.38 13.166

Watershed Conditions: Vegetative cover: Improved pasture - 60%; unimproved pasture and range with little timber - 15%; weedland - 10%; citrus - 5%; marsh-swamp - 5%; nrbar, reads, etc. - 5%.

Naps: Topegraphic/Mydrologic - Mydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Fub. 1383, pr. 06.002-2.

Precipitation: Fecords began April 1964. Thiessen weighted using 3 gages. Station averages computed from 2 Thiessen weighted gages for record period 1965-1975 and 3 Thiessen weighted gages heginning 1976.

Snnoff: Records legan April 1964. Data furnished by U.S. Geological Eurwey.

Long-Term Precipitation: National Weather Service records at Ckeecholes Murricane Gate 6, Plorida (gage discontinued 1971, afterwards use Ckeecholes 5 SN).

Notes: Watershed area was changed, effective Jan. 1976, to reflect physical alterations to the drainage area.

1977	7 D.	ILY PEEC	NOITATION	(INCHES)		VB R	C BEACH,	EICEIDA	(WILLIAMSCE	CIICB)	DATERSBEC	6-5
Lay	Jan	P∈h	Bar	Apr	May	Jnr	Jul	Ang	Sep	Cct	RCA.	[ec
1	1 0-0	0.0	3.0	0.0	0.0	0.0 T	0.0 1	0.0 E	0.36	0.0	0.0	0.0
1 2	0.0 E	0.0	0.0	0.0	0.0	1.25	0.0 I	0.40E	1.73	0.0	0.0	0.07
1 3	0.40E	0.0	0.9	0.0	0.0	0.29	0.07	r 0.0	2.12	0.53	0.10	0.0
4	0.0 E	0.20	0.5	0.0	0.0	0.12	0.03	0.0	0.18	0.0	0.27	0.0
5	0.0	0.0	0.0	0.0	1.53	0.0	0.0	0.0	0.14	0.0	0.€2	0.0
€	9.0	0.0	0.0	0.0	0.03	0.04	0.0	0.0	0.0	0.0	0.0	1. 47
1 7	0.0	0.0	0.13	0.0	0.0	0.3	0.0	0.07	0.0	0.0	0.0	0.0
٤ ا	3.0	0.0	0.0	0.0	0.0	0.80	0.0	0.01	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0 T	0.0	0.0	0.30
10	0.03	0.0	0.37	0.0	0.0 I	0.03	0.0	0.0	0.0	0.01	0.0	0.0
11	0.0	0.0	0.03	0.0	0.03	0.0	0.0	1.16	0.0	0.03	0.0	0.0
12	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0
13	0.0	0.0	0.9	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.03
14	0.0	0.0	0.0	0.0	3.0	0.13	0.58	0.88	0.0	0.0	0.0	0.13E
15	0.36	0.0	0.0	0.0	0.0	0.0 E	0.14	0.14	0.0	0.0	0.0	0-0 F
16	0.40	0.0	0.)	0.0	0.9	0.43E	0.39	0.0	0.01	0.0	0.17	1.01E
17	0.0	0.0	0.0	0.0	0.0	0.0 E	0.79	0.11E	0.0	0.0	0.0	0.17E
18	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.07E	0.41	0.0	0.0	0.0 E
19	0.0	0.0	0.0	0.0	0.0	0.66E	0.13	0.01E	1.49	0.0 E	0.0	0.0 E
20	0.0	0.0	0.0	0.0	0.0	0.08E	0.20	C.03E	U. 16	C. 0 E	0.0	0.0 E
21	0.0	0.0	6.0	0.0	0.0	0.78E	3.4€	0.29E	0.61	G.0 E	0.07	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.07E	0.10	0.0 E	0.0 E	0.0
23	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.12E	0.07	0.23E	1.29E	0.0
24	0.0	0.14	0.9	0.04	0.0	0.34	0.0	0.07	0.95	0.37E	0.14E	0.0 E
25	0.07	0.0	0.0	0.0	0.29	0.0	0.17	C.0	0.14	0.0 E	0.0 E	0.11E
26	0.6	0.0	0.0	0.0	2.78	0.0	0.01	0.04	0.06	0.07	0.0 E	0.0 E
27	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.18	0.36	0.0	0.0 E	0.0 E
28	0.13	0.62	0.0	0.0	0.10	0.26	0.29	0.42	0.0	0.0	0.0 E	0.0
29	0.0		0.0	0.0	0.64	0.0	0.0	1.12	0.0	0.0	2.29E	0.0
30	0.0		0.0	0.0	0.0	0.0	0.28E	0.26	0.0	0.10	0.0 E	0.0
31	0.20		0.0		0.22		0.0 E	0.07		C.0		0.0
TOTAL	1.59	0.96	0.53	0.14	6.55	5.18	3.46	€.20	€.91	1.34	4.95	3.29
STA AV	1.72	2.10	2.44	1.05	5.51	9.57	7.09	7.19	5.52	4.08	1.62	1.49

Air Temperatures: See table for Watershed W-2, page 08.002-1. Gaging: Thiesser weighted averages of three gages. Station Averages: 13 yr beginning 1965.

Compensative Besearch Project of USDA, U.S. Geological Survey, University of Plorida, IFAS Experiment Station, And The South Plorida Water Banagement District

1977	i I	SEAN DAIL	r CISCHARG	E (CFS)		V F E	C EFFCE,	FLCF1CA	(WILLIAMSO	N CITCH)	WAIFBSE	FL 9-5
Day	Jan	P∈b	Bar	Apr	Bay	Jue	Jul	Aug	Sep	Cct	New	Γ∈c
1	3.30	4.60	4.60	2.10	1.20	5.40	3.30	1.40	18.00	10.00	2.10	71.00
2	3.30	4.60	4.20	2.10	1.20	5.20	3.90	1.20	28-00	7.70	2-40	37.00
3	3.60	4.60	2.70	2.10	1.20	31.00	2.70	1.20	179.00	7.60	2.70	25.00
4	5.40	4.60	2.40	1.80	1.20	26.20	2.10	1.20	338.00	12.00	3.00	15.00
5	5.70	4.60	2.10	1.80	2.20	25.00	2.10	1.20	360.00	6.60	7.70	11.00
€	5.00	4.30	2.10	1.80	6.90	14.03	1.80	1.20	296.00	6.50	5.00	89.00
7	4.20	3.90	1.83	1. € 0	3.30	9.60	1.80	0.90	195.00	5.40	3.00	130.00
ė	3.60	3.60	1.60	1.60	1.60	8.00	1.80	0.90	90.00	4.60	2.10	68.00
Š	3.00	3.30	1.40	1.40	1.60	44.60	1.60	0.50	34.00	E. 90	1.60	94.00
10	3.30	3.30	1.40	1.40	1.60	30.00	1.40	0.50	20.00	3.60	1.80	54.00
11	3.00	3.00	1.40	1.20	1.40	13.00	1.40	1.60	12.00	3.00	1.60	37.00
12	2.70	3.00	1.40	1.20	1.40	8.10	1.40	2.40	9.60	2.40	1.60	25.00
13	2.40	3.00	1.60	1.20	1.20	5.70	1.40	3.00	7.70	2-40	1_60	16.00
14	2.40	3.00	1.89	1.20	0.50	4.20	1.40	3.30	7.70	2-40	1.60	17.00
15	2.40	3.00	1.80	1.20	0.70	3.90	1.80	7.10	4.80	2.10	1.40	18.00
16	5.40	3.00	1.60	1.20	0.70	3.60	2.10	6.50	6.10	2.10	1.60	23.00
17	9. 10	3.00	1.60	1.20	0.50	3.30	2.70	5.00	3.30	1.80	1.60	115.00
18	6.50	3.00	1.60	1.20	0.50	3.30	4.60	3.30	3.00	1.60	2.10	107.00
15	5.70	3.00	1.60	1.20	0.50	3.00	5.00	2.70	18.00	1.60	2.70	66.00
20	4.60	2.70	1.60	1.20	0.50	4.60	3.30	2-10	195.00	1.60	2.70	43.00
21	4.20	2.70	1.80	1.20	0.50	20.00	3.30	1.80	115.00	1.60	2.70	32.00
22	4.20	2.70	1.80	1.20	0.50	83.00	5.70	1.60	105.00	1.60	2.70	26.00
23	3.30	2.40	1.60	1.20	0.50	37.00	3.90	1.80	62.20	2.10	3.00	16.00
24	3.30	2.40	1.60	1.20	0.50	16.00	3.00	2.10	39.00	2.70	11.00	13.00
25	3.60	2-40	1.80	1.20	0.50	19.00	2.40	1.60	77.00	3.00	7.70	11.00
2€	3.30	2.40	2.10	1.20	0.90	16.00	2.10	1.60	85.00	3.00	5.00	11.00
27	3.30	2.40	2.10	1.20	6.20	9.10	1.60	1.60	51.00	3.00	3.30	11.00
28	3.30	3.30	2.10	1.20	6. 10	5.70	1.60	2. 10	48.00	2.70	3.00	8.60
25	3.50	3.30	2.43	1.20	4.30	4.60	1.60	3.30	29.00	2-40	34.00	7.70
30	4.60		2.40	1.20	7.70	3.90	1.60	38.00	15.00	2-40	142.00	6.50
31	4.20		2.40	1.20	6.90	3.50	1.40	34.00	15.00	2. 10	172.00	€. 10
2BAB	4.071	3.279	2.013	1.390	2.100	15.507	2.423	4.461	81.707	3.823	8.817	37.545
INCHES	0.143	0.104	0.071	0.047	0.074	0.527	0.085	0.157	2.779	0.134	0.300	1.320
SIA AV	0.446	0.289	0.665	0.149	0.453	2.247	2.526	2.361	1.695	1.498	0.474	0.362
210 81	0.446	V.207	0.000	0.147	V-433	2.247	220	2.201	1.033	1.470	0.474	0.302

Ctation Averages: 13 yr beginning 1965. Conversion Factor: CPS to IB/LAY after 1975, multiply by 0.00113364. Notes: Data furrished by 0.S. Geological Survey. Records are good to fair.

WATKINSVILLE, GEORGIA WATEFSHED W-1 (10001)

LOCATION: Coonee Co., Ga.; 7 mi. S.W. of Athens, near Watkinsville, Ga., Coonee Biver Pasin. lat. 33 deg. 53 min. 3B sec. N.; Long. E3 deg. 25 min. 30 sec. N.

AFFA: 19.20 acr∈s

2.5	BIBI	Y FFECIF	ITATICN	BNE FUNO:	FF (INCEF	s)		WATKINSV	ILLE, GF	CEGIA	DATEFSHE	D &-1 1	0001)	
		Jan	F∈b	Ear	yŁı	ľa y	Jun	Jul	Aug	Ser	0ct	۴c∀	D∈c	Arrual
1977	P Ç	4.45 0.41€	1.97 0.30€	6.56 J.206	1.99 0.050	2.0E 0.0	1.52 0.0	4.37 0.3	4.69 0.064	3.0B 0.001	7.61 0.216	6.94 2.306	2.89 0.011	48.59 3.216
STA AV	P Ç	4.79 0.455	4.56 3.355	6.19 0.766	4.17 3.433	4.17 0.337	3.72 0.193	4.92 0.335	3.93 3.277	3.25 0.031	3.04 0.061	3.71 0.316	4.6E 0.253	51.13 3.783
	ANN	ixs#		CHARGE (1)		- -	aximum	velose fo	r Selecte	ed Time	Interva	1		Lare
	ANN		oun arge	1 Hour Late Vo	2		Baximum 6 Bc	Volume fo		ed Time			is 6	lays
1977	ANN	∄axi Disch Dat∈	oum arg∈ Fat∈	1 Hour	2 1. Date	Bcnrs Vcl.	Baximum 6 Bc Date	Veloue fo prs 1 Vol. Da	r Selecte 12 Ecors ite Vcl.	ed Time 1 Date	Interva Day Vol.	1 2 Day Cate V	s (t∈ Vol.
1977	ANN	∄axi Disch Dat∈	oum arg∈ Fat∈	1 Hour Late Vo	1. Date	Bcnrs Vcl.	Baximum 6 Bc Dat∈ 11-5	Veloue fo prs 1 Vol. Da	r Selecte 12 fcbrs ate Vcl.	ed Time 1 Date	Interva Day Vol.	1 2 Day Cate V	s (t∈ Vol.

Watershed Conditions: Excellent coastal termodagrass pasture. Fertilized and cut as follows: Fet. 28 applied 2500 lbs. NH4NG3, Pay 19 applied 5000 lbs. NH4NG3, June 3 applied 4000 lbs. 3-20-0 Super Phosphate and 2000 lbs. Puriate Fotash (60% K), Aug. 5 15 big bales of hay cut, Aug. 12 applied 5400 lbs NB4NG3, sprayed with Sevin Aug. 16 and Aug. 25 for army worms, sprayed with Isanate Aug. 30 for narmy worms, Sept. 12 51 rolls of hay cut, Oct. 18 rye planted, Nov. 5 applied 3000 lbs. NH4NO3. A total of 5,585 cow-days of grazing.

Maps: Topographic/Bydrologic - Rydrologic Data for Experimental Agricultural Watersheds in the Dnited States, 1556-55, USIA Misc. Put. 945, p. 10.1-8.

Precipitation: Records began Sept. 1, 1939.

Innoff: Becords hegan Sept. 1, 1939.

Innof-lerm Frecipitation: National Weather Service records at Athens, Ga. [1865-1939] and Southern Piedmont Conservation Fescarch Center (1940-1977).

2 3 4 5	37 18 36 16 36 31 43 36 51 35	50	23	€1						Jor max sin		Jol sat rio		Ang max min		S∈p max min		Cct max min		Kcv vax min		nsx min	
5	43 26	67	17	58	27 28	6 E 7 E	49	75 78	€1 €2	8 E 8 4	€7 €0	90 90	67 68	92 77	73 70	88 87	6B 66	84 65	67 £1	69 62	50 55	56 57	45
5 6 7			20 34	66 69	40 5.5	73 £1	58 56	82 £4	60 60	88 90	5 B 5 B	90 93	65	7 Ξ 8 3	68	8 B	66 70	6 S 7 O	49	67 69	61 65	65	35
7			25	ĒĞ	50	63	40	67	55	92	55	95	69	90	71	B4	71	74	42	68	64	71 76	52
	40 32 43 29		20 21	52 57	48	62 76	3 <u>5</u> 35	69 68	5 E 6 4	95	57 58	98	70	52 52	70 72	89 85	72 72	76 73	4 <i>6</i> 51	69	57 56	52	27
8	47 23		16	65	30	B0	54	86	62	7 E B O	48	100 105	71	92	71	77	72	65	59	67 72	56	⊋8 46	18 31
	37 35 40 19		19 25	65 64	31 41	71 76	40 40	60 74	5 E	85 86	55 47	9 E 9 7	71 71	93 91	70 65	87 89	70 70	72 67	4 E 4 G	75 64	54 39	52 4 E	20
	36 14		28	63	56	85	47	78	42	91	54	97	71	93	70	83	66	67	52	60	32	48	20
	44 22		39 39	72 73	62 49	86 84	52 50	80 86	47 46	96 96	69 69	97 100	72 72	9 1 9 0	6 E	82 85	61 68	€ E 5 €	52 42	56 51	31 26	4 B 60	42
	41 32 49 35		25 35	76 62	48	€4 €€	4 B 5 0	8 £	50 45	90 68	70 70	100 97	70	33	6 S 7 U	8 B	72 69	6 <i>6</i> 74	3B 39	5 9 6 3	25 28	64 86	5:
	38 15		26	74	48	86	52	90	54	33	72	97	72	91	7.2	BO	72	60	44	70	40	57	4 (
	30 6 26 16		26 28	69 77	44 56	85 86	54 56	90 91	56 57	84 89	69 68	93 93	72 68	90 B1	73 67	80 82	72 71	63 72	40 36	71 64	50 37	55 57	5(
	30 6 36 23		46 27	73 67	53 49	75 78	57 58	65 88	61 59	\$5 \$3	71 76	93 96	69 70	83 84	8 3 6 8	7 B B6	€8 67	68 69	44 38	60 61	3E 50	65 54	4:
	44 19		26	56	50	75	£0	75	63	92	65	9 B	71	66	64	86	64	73	41	67	52	42	29
	43 24		24 35	54 64	3B 33	79 76	63 62	85 82	64 64	94 93	66 70	94 89	75 70	89 88	6 E	83 85	61 61	74 74	40 42	66 72	56 60	44 52	20
	25 28 43 29		52 47	72 73	37 47	72 66	5 € 5 2	72	64	95 96	72 72	93 69	63	9 1 8 6	70 71	84 88	62	72 66	52 61	72 8 E	69 48	59	4:
	53 26		40	74	42	63	42	60	65	90	72	94	73	86	74	B4	6B	70	57	48	29	36	2.
27	55 40	€2	39	73	45	73	39	61	65	9.5	72	84	72	8.5	74	85	66	74	54	5.4	26	44	11
	55 21 30 12		33	73 72	53 64	79 79	50 59	B0 87	63 62	95 94	73 75	76 76	68 67	88 67	71 65	83 73	62 55	75 74	56 56	52 54	43 48	42 50	19
30	43 20 41 26			71	54 49	70	5 €	86 67	64 66	54	69	91 92	71 72	8 S	70 71	6 B	62	6 2 6 0	56 50	54	49	38 45	38

Station Averages: 9 yr beginning 1969.

Cooperative Research Project of DSDA and Georgia Agricultural Experiment Station

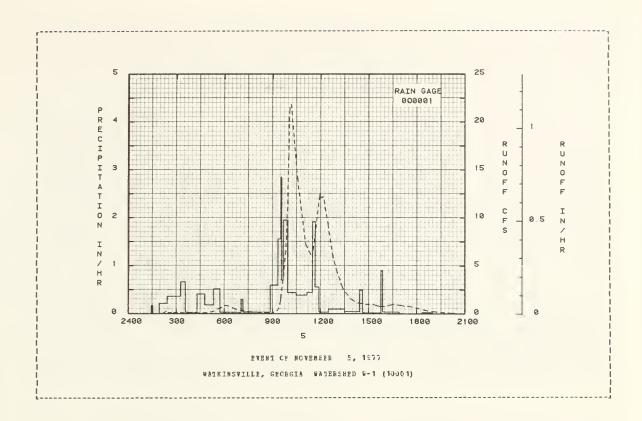
1977	7 E	AILY PEEC	IFITATICE	(INCHES)		N A F	IRINSVILLE	, GECEGI	A WATERS	BEC W-1 (10001)	
Сау	Jau	F∈b	Bar	åpr	ta y	Jui	Jel	Aug	Sep	Cct	ĕc⊽	Lec
1 2	0.0	0.0	0.0	0.0	0.12 0.0	0.0	0.36	0.0	0.0	0.37	0.0	0 - 10 C - 0
3	0.49	3.5	0.5	9.4€	0.0	0.0	0.0	1.34	6.0	0.0	0.05	0.0
4	0.04	0.0	0.61	0.5€	0.0	0 - C	0.5	0.0	0.38	0.0	0.95	0 - 0
5	0.0€	0.0	9.08	0-42	0.0	0.0	0-0	0.0	0.0	0.0	4.17	0.06
€	J. €2	0.0	0.59	0.0	0 - 0	0.20	0.0	0.0	0.0	0.0	0.0	0.0
7	0.04	0.0	0.36	0.0	0.02	0.3	0.0	0.0	0.33	0.0	0.0	0.0
& S	0.C 1.74	0.0	0.9	0.0	0.0	0.0	0.0€ 0.3	0.0	0.0	2.18	0.0	0.10
19	0.02	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0
11	0.0	0.3	0.12	J. 3	U = 0	0.0	U.d	0.0	0.0	0.0	0.0	0.0
12	0.0	0.17	0.44	0.0	3.3	0.08	0.0	0.0	0.0	0.0	0.0	0.0
13	3.0	0.76	0.0	0.0	0.0	6.6	0.75	0 - 0	0.0	0.0	0.0	0.0
14	0.83	0.0	0.0	0.0	0.0	0.0€	0.0	0.0	0.0 J.27	0.0	0.0	0.33
15	0.0	0.)	0.0	0.0	c-0		0.0	0.9	3.21			
16	0.0	0.0	0.0	0.3	0.0	0.21	0.0	0.10	1.24	0.0€	0.23	0.0
17	0.0	0.0	0 - 0	0.0	0.0	0.14	0.20	1.06	0.28	0.0	0.50	0.05
18 15	0.0	0.0	0.05	0.06	0.41	0.0	0.02	0.27	0.0	0.0	0.0	0.20
20	0.0	0.0	0.74	0.0	0.1€	0.05	0.0	0.0	0.0	0.0	0-0	0.0
21	0.0	0.5	1.96	ü.0	0.05	0.0	0.0	0.0	J. U	0.0	0.0	0.0
22	0-0	0.0	0.36	0 - 0	0.0	0.15	0.0	0.0	0.0	0.0	0.31	0.0
23	0.0	0.0	0.3	0.22	4-4	0.25	0.0	0.0	0.0	0.0	0.02	0.0
24 25	0.51	1.14	0.0	0.25	0.09	0.0	0.0	0.0	0.0	0.0 3.56	0.0	0.42
25	0.3	0.0	0.0	0.0	0.08	0.0	U-US	0.0	0.0	3.50	0.0	9.62
26	0.9	0.0	0.0	0.0	0.33	0.24	0.02	0.72	0.0	0.19	0.0	0.0
27	0.0	0.60	0.0	0.0	0.03	0 - 0	0.0	0.17	0.14	0.05	0.0	0.0
28	ປ. 19	0.0	0.43	0.0	0.14	0.0	1.17 1.18	0.0	0.0	0.0	0.35	0.0
29 30	0.0 0.0		0.85	0.0	0.06	0.0	0.32	0.04	0.07	0.0	0.0	0.50
31	0.0		3.0	0.0	0.0	0.42	0.50	0.0	0.05	0.0	0015	0.0
ICIAI	4.45	1.97	€.58	1.99	2.08	1.92	4.27	4.69	3.0€	7.61	6.94	2.69
SIA AV	4.79	4.56	6.19	4.17	4.17	3.72	4.52	3.93	3.25	3.04	3,71	4.68

Gagiug: Baiu gage B1-61. Staticu Averages: 38 yr Łeginniug 1940.

197	7	BEAN DAIL	Y CISCHARG	E (CFS)		AW	IKINSVILLI	E, GECRGII	A WATERS	BEC 4-1 (10001)	
Day	Jan	F∈b	Ear	yer	tay	Juu	Jul	Aug	S€p	Cct	B C V	Ĩ€C
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	C.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
4	0.0	0.0	0.005	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0
5	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0	0.0	1.856	0.0
6	0.003	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 1	0.3	0.0 T	0.0	0.0	0.0	0.0	0 - 0	0 - 0	0.0	0.0	0.0
9	0.0	0.0	0.3	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.287	0_0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0	0.0
10	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	9-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
17	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0 - 0	0.0
19	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0-003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.001	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
24	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.023	0.0	0.0	0.0	3.0	0.0	0.3	0.0	0.0	0.123	0.0	0.00€
26	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.033	0.0	0.0
27	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0
29	0.0		0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0
30	0.0		0.009	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0-0	0.003
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
PAN		0.0002	0.0054	0.0013	0.0	0.0	0.0	0.0001		0.0056		C.000
BCHES		0.006	0.206	0.050	0.0	0.0	0.0	0.004				0.01
TA AV	0.456	0.355	0.766	0.403	0.337	0.193	0.335	0.277	0.031	0-061	0.31€	0.25

Ctaticu Averages: 38 yr beginning 1940. Ccnversion Factor: CPS to IB/DA1, multiply by 1.235669.

977 £1					WAIK					
ARTICE	ENT CONDIT	ICNS	Date	FAI	NPALL	lee	Date	RUNCE	Fato	100
Mc-Day	(irches)	(inches)	Bo-Eay	of fay	(is/br)	(inches)	Mo-Day	of Day	(cfs)	Acc. (inches)
					VENEER 5					
,	C 060001									
11-5	0.0 0.0	0.005	11- 5	125	0.ú	3.9	11- 5	211	0.097	0.0
				132	0.1715	0.02		221	0.261	0.0015
				225	0.2200	0.13		240	0.132	0.0032
DARRECGED	CCBLITICNS:			316	0.0 0.1715 0.0 0.2200 0.3647	3.44		249	0.130	0.0051
crmant Cca	istal .			334	0.6667	0.64		414	0.071	0.0125
ermudagras xcellent o	S.			418	0.0273	0.66		426	0.074	0.0132
Acellenc (.0 4-1.			520	0.1618	0.9€		454	0.126	0.0157
				<u> 5</u> 4 4	0.6667 0.0273 0.4138 0.1618 0.5250	1.17		5 14	0.22€	0.0167
				703	0.0304 0.3000 0.0350 0.6000 1.5601	1.21		523	0.292	0.0207
				€52	0.0350	1.30		55 0	0.551	0.0324
				9 20	0.6000	1.5€		604	0.868	0.6417
				530	1.5601	1. 64		617	0.754	0.0510
				940	2.6500 0.6999	2.03		646 740	0.420	0.0661
				95€	1.5500	2. €2		818	0.106	0.0655
				1030 1119	2.6500 0.6999 1.5500 0.4412 0.3500	2.67 3.13		848 858	0.071 0.05€	0.0878 0.0665
				1130	0.4500	3.2€		906	0.163	0.0694
				1140	1.9200	3.60		918	0.350	0.0920
				1155	0.5600	3.74		924	0-622	0.0945
				1330	0.4500 1.9200 0.5600 0.0343 0.1000	3.8€		534	2.053	0.1054
				142€	0.0429 0.5000 0.0174 0.9000 0.0394	3.50		950	6.623	0.1652
				1438	0.5000	4.00		956	11.522	0.2120
				1553	0.9000	4.11		1002	20.509	0.2926
								1004	21.533	0.3290
				1820	0.0 0.0300	4.15		1009	21.843 14.103	0.4223
				1500	0.0300	4.17		1105	7.210	1.0873
								1124	6.151	1-1565
								1133	0.086	1.2463
								1157	12.505 12.106	1.4445
								1211	12.15€	1.5920
								1228	9.299	1.7493
								1245	€.1€2	
								1300 1326	4.581 2.529 1.487 1.116	1.5321
								1356	1.487	2.0€35
								1423 1426	1.11€ 1.177	2.0938 2.0967
								1431		
								1439	1.052	2.1051
								1450 1517	0.992	2.1150
								1539	0.790	2.1016 2.1051 2.1150 2.1421 2.1569
								1544	0.7€€	2.1623 2.1730
								1600 1610	0.755 0.852	2.1730 2.1801
								1635		2.2002
								1714	0.817	2-2310
								1726 1744	0.81€ 0.715	2.2394
								1843	0.324	2.2777
								1917	0.200	2-2853
								20 10	0.063	2.2918
								2059	0.032	2.2542



RDINGFESTOWN, PENNSYLVANIA WATERSHED WE-38

LCCATICE: Northumberland County, Pennsylvania 6 miles northeast of Rlingerstown, Rennsylvania: Babantango Creek Ratershed, Susguelanna Eiver Basin. Lat. 40 deg. 42 min. 16 sec. N.; Cong. 76 deg. 35 min. 16 sec. N.

2.77 sg. miles APFA: 1773.00 acres

80	NTHLY	PRECIPI	TATION	AND RUNC	F (INCRE	s)	k C	INGFFSTC	N, PENNS	LLABNIA	RATERS	BEC &E-30		
		Jan	F∈D	tar	AFT	Bay	Jun	Jul	Aug	Ser	Cct	Nc v	D€C	Arnnal
1977	E Q	1.00 0.186	2.0 E 2.106	5.49 6.252	4.10 2.573	1.64 1.013	5.55 0.834	5.66 1.617	3.49 0.302	4.58 0.640	5.40 2.960	4.10 2.010	4.40 5.225	47.53 25.520
STA AV	P Q	2.38 1.928	2.18 2.618	3.33 3.240	3.06 2.324	4.06 1.694	6.06 2.501	3.66 0.765	3.27 0.439	5.09 1.383	3.21 1.402	3.54 1.570	3.36 2.830	43.22 22.654
	ANNE	Baxi		HARGE (in	/hr) AFD		aximum	Volume fo	FF (incher or Select	ed lime	Interva	1	NTFRVACS	
		Discha	arge	1 Hour	2	Hours	6 Hc	urs '	12 Hours	1	Day	2 Cays	5	Blays
		Discha Dat∈ 1		1 Hour Date Vo		Wcl.			12 Hours ate Vol.		Day Vol.	2 Cay: Cate V		B Cays t∈ Vol.
1977			ate	Dat∈ Vo	l. Date	Vcl.	Dat∈	Vol. D		Date	Vol.	Cate V	01. Da	t∈ Vol.
1977		Dat∈ 1	ate	Dat∈ Vo	l. Date 169 2-24	Vc1. 0.289	Dat∈ 2-24	Vol. D	ete Vcl.	Date	Vol.	Cate V	01. Da	t∈ Vol.

Ratershed Conditions: Mixed cover area, 4-yr rotation of corm, small graim, small graim and native grasses, most of which is heavily contoured. Vegetative cover: corm, 20.4%; small graim, 20.0%; pasture, 4.0%; bay, 12.9%; vegetables, 3.7%; idle, 0.6%; orchard, 0.5%; bowesteads and roads, 5.1%; forest, 37.6%.
Baps: Topographic/Geologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA disc. Pub. 1330, pr. 16.006-8 and 16.006-9.
Precipitation: Fecords began Jan. 1, 1968. Thiessen weighted average for raim gages 8E37 and 8E37.
Runoff: Records tegan Jan. 1, 1968.
Long-Term Frecipitation: Wational Weather Service records at Selimsgrove, CAA Airport, Pennsylvania.

19	77 CAILY	ALE TEMPE	BATURE C	EGREES E)		RCING	EESTCAN,	FENNSYLV <i>E</i>	NIA WATE	FSBEL WE-	36	i
Day	Jan rax min	F∈b max min	Mar max min	AFT max min	Bay max min	Jur max min	Jul max min	Aug max sin	Ser max min	Cct max min	Rcv max min	Dec man min
1 2 3 4 5	16 7 25 11 21 11 21 20 28 3	21 13 29 6 37 6 34 27 30 5	37 21 42 20 53 19 56 38 57 32	54 36 60 45 45 37 49 26 41 26	66 51 81 58 79 51 70 50 81 37	26 26 26 26 26 26 26 26 27 26	79 52 80 45 75 56 89 66 84 65	81 57 76 59 88 62 88 66 88 66	80 64 89 64 82 59 79 54 83 63	66 58 64 50 55 45 64 40 64 34	58 36 60 51 63 57 89 62 70 56	46 37 45 27 41 25 36 24 38 26
6 7 6 9	26 -1 29 13 21 5 25 4 33 13	15 3 23 7 28 -2 31 -5 45 15	47 30 41 26 49 26 84 25 67 32	42 19 40 24 42 20 58 19 76 36	78 52 62 49 60 35 68 50 57 52	BE BE	81 67 87 65 83 61 83 63 75 66	85 69 87 67 85 67 84 68 84 68	78 62 76 58 75 55 75 51 82 63	63 41 59 32 55 42 64 42 57 38	58 53 59 49 54 49 59 51 62 37	34 26 27 15 26 12 35 6 15 7
11 12 13 14 15	16 -5 13 -7 18 -13 22 13 25 11	51 24 48 31 43 33 42 31 34 18	68 30 59 44 61 49 55 45 61 41	85 51 82 45 70 45 66 30 68 43	FF NE	RF NE RE NE NE NE NE NE	86 69 88 68 86 60 87 57 91 63	84 66 76 64 76 65 78 64 77 60	69 45 71 38 73 58 74 58 65 45	58 32 53 34 55 40 46 40 61 36	41 29 41 29 33 26 38 22 51 26	20 \$ 27 0 37 27 43 34 41 31
16 17 18 19 20	21 -6 2 -13 9 -14 20 2 25 10	25 13 25 19 31 4 38 27 33 23	51 32 42 30 43 25 26 24 52 31	70 30 72 32 73 46 70 51 77 50	86 86 86 86 86 86 86 86	NF NR NF NF NF NR NF NR 76 56	92 66 91 67 93 62 90 70 92 69	78 60 80 58 73 48 73 46 73 48	63 57 78 59 82 58 82 61 77 52	51 34 45 28 54 25 49 38 54 42	65 36 63 35 44 30 44 25 45 24	47 24 40 28 1 38 33 1 27 33 1 36 32
21 22 23 24 25	22 11 20 12 24 5 30 8 30 21	24 3 42 2 64 32 51 35 53 32	41 33 47 32 37 24 41 22 47 26	63 57 76 62 63 47 59 45 54 41	RE NE NE NE NE NE NE NE	78 45 78 46 79 53 71 64 79 58	79 54 80 48 82 52 76 66 74 52	73 45 80 55 81 53 78 56 75 49	69 52 67 57 63 55 64 52 56 51	63 37 65 31 55 35 56 35 67 33	47 41 46 35 35 35 48 33 40 24	37 25 31 24 35 19 46 21 46 20
26 27 28 29 30 31	28 15 29 ± 37 -4 6 -9 12 0 20 -2	58 30 59 37 38 29	62 25 52 42 77 46 83 51 79 46 56 36	61 40 63 37 57 34 66 29 72 36	NE NE BE BE BE NE BE NE BE NE	85 54 76 61 81 57 81 57 81 52	75 43 74 46 77 BE 81 63 84 56 83 67	77 46 85 61 94 67 90 66 80 67 84 67	71 50 68 45 68 50 66 47 72 45	60 48 73 59 64 48 61 36 58 30 51 29	34 25 31 21 36 27 33 27 42 31	21 5 22 11 18 4 29 5 42 15 40 20
AV. BEAN STA AV	22 4 13.3 33 18	38 16 27.7 36 20	53 32 42.9 46 29	63 38 50.8 59 28	70 49 59.5 67 48	79 55 66.8 76 57	83 60 71.9 81 61	81 60 70.6 80 60	73 54 63.8 73 52	59 38 46.6 60 42	49 36 42.8 48 33	25 20 27.6 27 25

Station Averages: 10 yr leginning 1966. Notes: Data taken from hygrothermograph charts, from 2400 the preceding day to 2400 the date shows. Fata recorded at BD38 meteorological station.

Cooperative Research Project with USDA, Soil Conservation Service, The Pennsylvania State University Agricultural Experiment Station, and the Institute for Research on Dand and Water Besources of the Rennsylvania State University

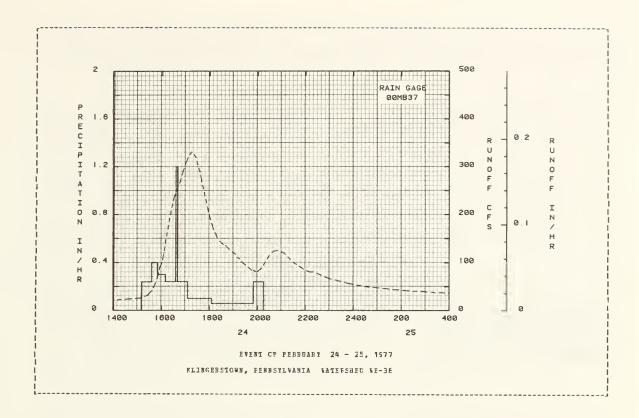
197	7 E.	AILY PRECI	FITATICE	(IECHES)		KIING	ESSICWN, P	ENNSYLVAN	IA WATE	SEEL SE-3	e	
Lay	Jan	F∈b	Bar	Apr	Bay	Jur	Jul	Aug	Seg	Cct	pca	D€C
1 2 3 4 5	0.0 0.0 0.05 0.0	0.3 0.0 0.0 0.35 0.05	0.0 F 0.0 B 1.01E 0.94E 0.9 B	0.0 1.40 0.0 0.35 0.20	0.05 0.05 0.0 0.20 0.60	0.05 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.41	0.0 E 0.10 E 0.10 E 0.0 E 0.10 E	0.0 0.49 0.0 0.0	0.35 8.15 0.0 0.0	0.0 0.05 0.25 0.0	0.30 0.05 0.0 0.0 0.0
	0.0 0.20 0.0 0.05 0.20	0.0 0.0 0.0	0.0 E 0.0 E 0.0 E 0.0 E 0.0 E	0.0 0.10 0.0 0.0 0.0	0.0 0.0 0.30 0.0 0.0	0.55 0.05 0.0 0.51 0.10	2.05 1.05 0.10 0.0	0.34 E 0.20 E 0.55 E 0.0 E 0.20 E	0.0 0.0 0.0	0.30 0.0 0.10 0.65 0.0	0.0 0.70 3.0 0.0 0.80	0.0 0.0 0.0 0.10 6.05
1 11 12 13 14 15	0.0 0.0 0.33 0.0	0.75 0.05 0.0 0.75 0.0 E	0.0 E 0.53E 0.61E 0.0	0.0 0.0 0.0 0.0	J-05 0-0 0-0 0-0	0.05 0.05 0.0 0.0	0.0 0.85 0.05 0.0	0.0 F 0.0 E 0.10E 0.05E 0.0 E	0.0 0.0 0.0 0.20 0.0	0.0 0.0 0.0 0.90 0.45	0.05 0.0 0.0 0.0	0.0 0.05 0.85 0.0
1 16 1 17 1 16 1 19 1 20	0.0 0.0 0.0 0.0	0.0 E 0.0 E 0.0 E 0.0 F 0.35E	0.05 0.05 0.35 0.0 0.05	0.0 0.0 0.0 0.0	0.05 0.05 0.19 0.05 0.0	0.0 0.59 0.0 0.0	0.05 0.05 0.0 0.65 J.0 E	0.0 F 0.55 E 0.0 F 0.0 F	0.95 0.05 0.09 0.15 0.20	0.75 0.35 0.05 0.30 0.35	0.0 0.30 0.05 0.05 0.05	0.0 0.05 0.65 0.30 0.10
21 1 22 1 23 24 1 25	0.0 0.0 0.0 0.10	0.0 E 0.0 SE 0.0 E 1.39E 0.0 E	0.3 1.69 0.0 0.0	0.0 0.0 0.50 0.75 0.25	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0 2.14	0.0 E 0.0 E 0.0 E 0.0 E 0.20E	0.13F 0.0 F 0.0 0.0 0.05 0.05	0.0 0.05 0.05 0.25 0.70	0.10 0.10 0.10 0.10 0.05	0.15 0.6 0.10 0.0 0.45	0-80 0-0 0-0 0-05 0-20
26 27 28 29 30	0.0 0.05 0.05 0.0 0.0	0.0 E 0.30E 0.0 E	0.0 9.3 9.20 0.0 0.J	0.30 9.9 0.15 0.35	0.0 0.0 0.0 0.0 0.0	0.05 0.10 0.35 0.0	0.0 E 0.0 E 0.0 E 0.3 E 0.20E 0.05E	0.0 0.0 0.0 0.09 0.09	1.35 0.0 0.05 0.05 0.05	0.15 0.0 0.0 0.0 0.05 0.05	0.10 0.10 0.0 0.15 0.75	0.0 0.05 0.0 0.05 0.05 0.05
TCTAL STA AV	1.09 2.39	2.38 2.18	5.49 3.33	4.10 3.08	1.64 4.06	5.59 6.06	5.66 3.66	3.49 3.27	4.58 5.09	5.40 3.21	4.19 3.54	4.40 3.36

Gaging: Thiessen weighted average of rain gages MES7 and BES7. Station Averages: 10 yr Leginning 1968.

197	17	BEAN DAIL	Y CISCBAR	GE (CFS)		KLING	EFSICWN,	PEHNSYLVA	NIA WATE	FSBFC %B-	3.6	
Day	Jan	P∈b	Bar	Apr	tay	Jun	Jul	Aug	S€Ę	Cct	%c v	Ľ€C
1	0_0	9.600	7.991	4.198E	4.602E	0.576E	1.074E	9.842E	0.597E	2. 649B		38.063E
2	0.0	0.555	€.066	6.960E	4.140 E	0.576E	1.019E	0.759E	1.327E	2.89 0 B	2.017E	17.682E
3	0.0	0.548	4.594	19.3312	3.849E	0.924E	0.89EE	0.791E	0.667E	2.245E	1.965E	12.4 10 E
4	0.0	0.548	43.650	17.514E	3.538E	0.863E	0.862E	0.7041	0.615B	1.98SE	2.220E	E.E11E
5	0.0	0.515	55.794	17.435E	3.574E	0.838E	1.045E	0.669E	0.546E	1.729E	1.868F	8.144E
6	0.0	0.498	25.363	15.846E	4.217E		16.312E	0.E82E	0.485E	2.146E	1.765E	€.522E
7	0.0	0.483	14.553	12.425E	3.9788	0.905E	16.85CF	0.910E	0.423B	1.86EF	4.696E	6.657E
8	0.0	0.452	10.779	9.979E	3.612E	0.856F	16.701E	1.206F	0.409E	1.565B	4.343E	5.427E
9	0.0	0.452	€.163	7.683F	3.535E		10.955E	0.968E	0.378E	4.720E	4.196E	5.263E
10	0.0	0.474	6.965	6.55EE	3.365E	1.104E	5.982E	0.877E	0-362E	5.341E	8.181E	4.453E
11	0.0	0.496	5.881	5.58EE	3.205E	1.054E	4.145E	0.753E	0.307E	4.701E	17.8COE	4.473E
12	0.0	0.498	5.144	4.91EE	2.993E	0.576E	5.579E	0.658E	0.312E	3.654B	13.016E	4.473E
13	0.207	1.062	11.535	4.34EE	2.842E	0.947E	5.596E	0.6821	0.348E	2.574E	E.699E	4.425E
14	0.897	5.466	20.842	3.945E	2.652E	0.E74E	3.985F	0.667E	0.395B	4.4E4E	6.779E	9.561E
15	0.931	3.799	16.555	3.489E	2.406 E	0.838E	3.245E	0.559E	0.310B	21.084E	5.620E	17.80EF
16	0.897	2.545	12.067	3.216E	2.169E	0.806F	2.790E	0.53SE		18.314B	4.E40E	15.695E
17	0.838	2.188	€.22€	2.946F	2.040F	1.754B	2.431E	1.584E		32.772E	4.955E	11.733E
18	0.838	1.848	€.133	2.72€E	1.928E	1.136E	2.055E	0.540E		18.40SE	4.134E	18.588E
19	0.838	1.692	7.6€3	2.524E	1.763E	0.911E	2.2E4E	0.704F	0.50SB	12.664B	3.372E	23.120E
20	0.602	1.682	7.038	2.352E	1.638E	0-886E	2.18EE	0.810F	0.744E	15.411E	3.058E	16.919E
21	9.774	1.476	€.557	2.153E	1.548E	0.764E	1.874E	0.603F	0.508E	13.371B	3.021E	38.958E
22	0.774	1.744	38.142	2.038F	1.447E	0.635E	1.427E	0.611E	0.439E	9.475B	2.872F	26.4022
23	0.750	6.415	50.300	1.950E	1.352E	0.587E	1.264E	0.516E	0.448B	6.948B	2.670F	15.730 E
24	0.713	53.798	23.920	2.842E	1.292E	0.573E	1.18EE	0.518E	0.551E	5.445E	2.750E	11.175E
2 5	0.713	28.578	14.015	3.752E	1.209E	8.470E	1.326E	0.44EE	2.346B	4.608E	2-880F	12.351E
26	0.713	14.283	10.363	4.108E	1.208E	6.362E	1.110E	0.418E	13.808B	4.301E	6.237E	5.712E
27	0.676	12.334	E. 151	4.941E	1.198E	3.541E	0.59EE	0.435E	7.773B	3.840B	5.653E	9.683E
28	0.655	11.582	7.298B	5.432E	1.127E	2.615E	0.524E	0.403E	4.758E	3.298E	5.547E	7.358E
29	0.634		6.675E	5.561E	1.076E	2.189E	0.932E	0.420E	3.260B	2.934B	4.679E	€.357E
30	0-600		5.873E	5.103E	9.5E2E	2.189E	0.973E	0.420E	2.442E	2.56SE	7.398E	5.469E
31	0-600		4.957E		0.976 E		0.891E	0.556F		2.274E		4.858E
SEAN	0.447	5.607	15.022	8.388	2.435	1.575	3.88€	0.726	1.589	7.112	4.992	12.556
INCRES	0.186	2-108	6.252	2.573	1.013	0.634	1.617	0.302	0.640	2.560	2.010	5.225
STA AV	1.928	2-618	3.240	2.324	1.694	2.501	0.765	C-439	1.383	1.402	1.570	2.830

Conversion Factor: CPS to IB/LAY, multiply by 0.013425.
Station Averages: 10 yr beginning 1968.
Notes: Records are good. Some periods of winter records are affected by ice on control, but no adjustments were made for these records.

			9T			SICEN, EF				
3 8 7 7 7 6	TERRET CON	PTUTCER		E 8	THEATT			EUNCI	T	Acc. (inches)
					FUARY 24	25, 1977				
			73 2-24	EG 00 H 15 10 15 35 15 50 16 10 16 35	0.0 0.2400 0.4000 0.3000 0.2400	0.0 0.10 0.20 0.30 0.40	2-24	1410 1445 1510 1525 1535	22.226 24.248 26.379 32.198 41.573	0.0 0.0011 0.0023 0.0038 0.0056
dixed covertation small grasses, seavily contacts	D CCNFITIO er area, 4 cf corn, s in arc nat most cf wh cntcnred.	-yr mall grain ive ich is Vegetativ	7€						46.393 58.496 70.796 89.111 98.638	
rain, 20 ay, 12.9 dle, 0.6	.0%; pastu %; veçetab %; orchard s and road	re, 4.0%; les, 0.7% , 0.5%;				0.90		1605 1615 1625 1630 1640	118.133 170.604 214.986 235.366 255.105	0.0264 0.0337 0.0432 0.0537 0.0655
								1645 1655 1700 1705 1710	296.175 308.385	0.1054 0.1200
								1715 1720 1725 1735 1740	331.136 325.556 318.375 268.550 268.050	0.1503 0.1656 0.1607 0.1945 0.2074
								1755 1600 1805 1810 1820	168.850	0.2178 0.2273 0.2361 0.2443 0.2515
								1825 1835 1840 1850 1905	144.439 136.806 135.309 126.542 116.766	0.2584 0.2648 0.2712 0.2772 0.2627
								1910 1915 1925 1930 1945	110.076 107.467 97.415 94.996 83.455	0.2880 0.2930 0.2977 0.3022 0.3062
								1950 1955 2000 2010 2030	81.256 87.961	0.3100 0.3139 0.3177 0.3217 0.3265
								2040 2050 2100 2110 2130	123.700 125.116 122.293 116.766 99.871	0.3328 0.3384 0.3441 0.3497 0.3544
								2150 2155 2210 2220 2240	89-111 85-690 80-170 80-170 72-818	0.3586 C.3627 0.3665 0.3739
							2-25	2305 2320 2345 2400 20	64.940 62.128 56.730 54.143 50.809	0.3804 0.3834 0.3860 0.3866 0.3910
								40 105 130 155 220	48.393 46.822 44.526 43.034 40.854	0.3932 0.3954 0.3975 0.3995 0.4014
								240 305 325 340 400	40.143 28.744 27.375 37.375 36.038	0.4033 0.4051 0.4069 0.4121 0.4138



16.006- 4

MCCREDIE, MISSOURI STATION RESERVCIE W-1

ICCATION: Callaway County, Mo.; 1 mi. S.B. of McCredie; Crows Fork Creek, Aurvasse Watershed, Missouri Fiver Fasio. Lat. 3E deg. 56 min. 54 sec. N.; Long. 91 deg. 54 min. 37 sec. N.

AREA: 153.00 acres

£C.	KIHIY	FRECIF	II ATI CN	AND BONCI	E (INCE	S)		#CC E	FEIF, MIS	SCOPI	STATION	FESERVCII	R-1	
		Jan	₽eh	far	ytı	Pay	Jun	Jul	žug	£∈ŗ	Oct	Nev	D∈c	Arrual
1977	P Q	0.67 0.025	0.64 0.097	4-28 0-984	2.96 0.017	5.43 1.304	4.05 0.0	2.50 0.018	5.26 0.060	4.71 0.190	4.10 0.733	2.20 0.643	1.90 1.285	37.60 5.356
SIA AV	P C	1.52 0.684	1.56 0.691	2-88 1-252	3.61 1.079	4.30 0.885	4.34 0.959	3.41 0.962	3.01 C.138	3.64 0.486	3.56 0.582	2.08 0.452	1.77 0.463	35.89 £.532
	ANNO	AL SAXI	BUE DISC	HAEGE (it	/br) AND	OMIXAN	M VCIOME	S OF FON	CFF (inch	es) FC	SPLECTE	C TIME I	TIFVALS	
		Maxi Disch Dat∈	arg∈	1 Rour Date Vol		Renrs	€ Hc	urs	or Select 12 Bours at∈ Vol.	1	Interva Day Vol.			Cays ∈ Vol.
1977		5- 2	0.226	5- 2 0- 2	224 5- 2	0.408	5- 2	0.887 5	- 2 1.14	7 5-	1.221	5- 1 1.	277 4-2	€ 1.304
						PARIEDE	S PCF FE	FICE CE	FECCED					
		10-13 1968	2.269 1	0-13 1.3 1988	165 10-1 3 1968		10- 4 1941		- 4 7.00 941	0 10- 6 194		10- 3 E. 1541	.050 10- 154	

[197	7 DA	ILY.	AIS T	EMPE	RATUR	E (D	EGREE	S F)					BCC I	PCIE	, PIS	30 O B	1 S 1	ATIC	h bes	EBVC	IB W-	1		
į.	Day	Jan Wax n		Fe par		na x) Dax		ta sax		Ju max		Je Bax		AI nax		Se max		Cc ∎ax	-	No max		D∈ max	
-	1 2	16 21	-2 7	30 37	6 8	43 49	22 28	66 68	38 56	65 70	5 ç 6 3	82 80	57 56	82 82	5 E 5 7	36 88	59 62	88 90	72 72	78 62	57 52	70 66	55 58	42 43	11 27
i.	3	30	20	39	27	53	40	59	44	75	60	82	54	88	67	8.5	60	90	€9	67	40	71	56	42	30
1	4	30	28	39	29	52	35	57	44	78	5€	82	62	92	70	90	65	88	68	€9	38	6.8	57	36	28
1	5	31	23	36	9	46	31	48	36	63	61	90	66	92	70	€7	70	64	72	65	56	63	55	30	27
i	6	26	20	20	3	51	30	56	35	83	67	78	74	92	72	87	74	84	69	64	44	61	56	27	5
1	7	25	4	27	-1	64	28	76	39	76	62	77	52	92	72	92	79	86	65	64	40	61	59	22	8
!	8 9	25 15	1 6	37 50	8 30	77 74	38 52	75 83	42 48	72 62	5.9	€3 82	5 8 5 3	92 86	8 E	94 87	70 70	87 87	66 67	€2 €0	52 38	6 E	57 35	32 27	18
i.	10	6	3	56	37	70	43	83	54	64	40	90	57	85	66	90	70	77	52	60	46	49	35	19	1
i		_										- •													_
!	11 12	15 - 18		58 54	3 7 39	69 53	53 45	83 83	56 59	69 74	42	9 0 85	64	86 88	8 E	91 82	67 6 0	77 74	52 58	61 56	40 36	50 48	30 26	34 44	7 34
1	13	33	-1	46	29	55	42	83 E1	57	77	46	7E	68 60	92	75	£5	70	76	64	62	32	52	31	44	44
i	14	33	21	46	32	76	40	79	£4	en	57	81	60	93	74	86	65	67	59	71	38	63	35	46	32
1	15	24	11	34	18	76	47	€2	53	84	62	84	60	92	74	90	73	71	56	72	45	65	56	€0	33
1	16	11 -	-12	34	14	60	31	65	53	83	60	87	65	92	72	91	76	79	62	59	34	62	38	60	35
i	17	15	5	50	22	56	40	85	54	8 1	60	87	65	92	73	23	65	85	86	72	36	53	39	54	35
1	18	14	-1	52	30	5.5	43	E3	56	£ 2	60	86	70	94	73	75	5€	86	70	70	44	50	30	43	32
!	19 20	20	- <u>-</u> - <u>-</u> - <u>-</u>	51 40	28 25	53 51	30 34	75 78	57 55	82 82	58 62	83 90	66 64	94 92	73 70	82 84	56 61	66 75	58 50	67 72	40 38	51 71	41 51	50 41	30 22
i.	20	23	20	40	23	- 1	34	70		02	02	30	04	32	,,	04	01	,,	50	12	-0	′'	٠.	71	22
i	21	33	17	56	21	52	35	73	60	79	61	90	60	90	70	8.8	65	75	5.8	82	51	39	28	22	16
!	22 23	33	2	68	47	51 56	29 35	72 55	54 4£	8 1 E0	59 55	82	65 £4	89 88	70 64	6 2 67	62 55	84 84	59 65	£2 76	54 50	46 52	27 37	46 51	17 28
1	24	35	2€ 2€	64 55	52 34	64	31	60	46	81	65	€0 €1	68	92	72	88	66	79	62	64	59	52	33	50	31
i i	25	35	21	54	35	8.8	38	63	39	85	59	85	68	94	71	85	60	84	52	€4	54	3.8	25	31	16
!	26	37	18	47	25	74	47	69	43	85	61	86	€6	87	59	94	71	82	54	70	41	25	ε	31	13
1	27	36	13	33	26	74	54	78	51	85	59	87	68	79	56	94	76	82	57	£5	48	34	18	29	8
i	28	39	-7	45	20	59	51	78	65	84	61	87	68	82	58	92	65	77	48	85	55	28	12	39	12
1	29	16	-4			66	47	65	47	78	60	٤1	55	90	70	80	66	71	57	70	52	37	21	44	21
-	30 31	16 24	6			66 55	41 36	65	49	84 78	5 <u>9</u>	84	73	91 90	65 73	68 85	65 73	78	€2	70 €0	47 59	34	15	41 39	34 34
1																									
		25 16.	č	45 34.		60	.5	72	50 - 1		58 .1		63		6 E	£7	67		61 •0	65	.46 .2		.6	39	23
	SEAN STA AV	39		43			30		43		52		61		65		63		55		45		33	41	
1																									

Station Averages: 37 yr Leginning 1541. Botes: Temperatnre data taken daily with the maximum and minimum thermometers, except on weekends and holidays, when data taken from hygrothermograph charts. The recording period is from 1700 of the previous day to 1700 of the day on which values are recorded.

Cooperative Research Project of UEDA and The Hissonri Agricultural Experiment Station

1977	D.	ILY PEEC	IFITATICK	(IBCHES)			ECCFFEIF,	BISSCOBI	STATIC	PESFERCIE	%−1	
Lay.	Jan	P∈b	Mar	AFT	tay	Jun	Jul	Ang	Ser	Cct	Nov	D∈c
1 2 3	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.36 0.3	0.24 0.0 0.0	1.44 2.25 0.0	0.0	0.0	0.0 0.0 0.0	0.0 0.0 1.03	0.04 0.0 0.0	1.10 0.06 0.0	0.23 0.0 0.0
9	0.23	0.0	0.0	0.07 0.0	0.10 0.0	0.14	0.0	0.04	0.04	0.05	0.0	0.36
6 7 6 9	0.06 0.0 0.0 0.08 0.08	0.0 0.0 0.0 0.0	0.0 0.3 3.9 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.3 0.46	0.34 0.53 0.22 1.74 0.12	0.0 0.0 0.0 0.0	0.9 1.97 0.0 0.0 0.09	0.0 0.0 0.11 0.0 0.0	0.0 0.0 0.19 0.0
11 12 13 14 15	0.0 0.0 0.15 0.0	0.0 0.0 0.0	1.09 0.09 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.3 0.0	0.0 0.0 0.07 0.0	0.28 1.06 0.0 0.0	0.11 0.0 0.0 0.0 0.0	0.0 1.38 0.76 0.03 0.22	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.3 0.58 0.0 0.0	0.0 0.0 0.0 0.05 0.09	0.33 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.46 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.13 0.27	0.74 0.09 0.0 0.0
21 22 23 24 25	0.0 0.7 0.09 0.0	0.0 0.7 0.35 0.0	0.12 0.0 0.0 0.0 0.0	0.62 0.03 0.93 0.0	0.0 0.0 0.0 0.3 0.33	0.67 0.10 1.18 3.63 0.09	0.0 0.0 0.0 0.3 0.70	0.0 0.0 0.11 0.0	0.20 0.0 0.0 0.59 0.0	0.0 0.14 0.26 0.72 0.32	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 27 28 29 30 31	0.0 0.04 0.0 0.0 0.0	0.22 0.0 0.07	0.0 0.29 2.05 0.0 0.0	0.0 0.0 0.3 0.0 0.03	0.0 0.0 0.0 0.0 0.5 0.5	0.63 0.0 0.54 0.0	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 2.05 0.0 0.0	0.0 0.9 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.07 0.21 0.0 0.0 0.25	0.0 0.0 0.0 0.0 0.0
TCTAL STA AV	0.67 1.52	0.64 1.56	4.2E 2.88	2.06 3.61	5.43 4.30	4.05 4.34	2.50 3.41	5.26 3.61	4.71 3.84	4.10 ₹.56	2.20	1.90 1.77

Gaging: Thiesser weighted values for 4 recording rain gages and 1 nor-recording rain gage. Station Averages: 37 yr beginning 1541.

[1977		SEAN DAILY	r rischab(B (CFS)			acceptie,	BISSCOBI	STATICE	££S£6VCI	Б W-1	
D	a y	Jan	P∈b	Bar	Apr	Bay	Jpr	Jul	Aug	Sep	Cct	Bov	£€c
 	1 2 3 4 5	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.183 7.885 0.262 0.110	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	3.187 0.716 0.0 0.0	0.617 0.039 0.0 0.266 1.430
	6 7 8 9	0.0 0.0 0.0 0.0	0.0 0.0 0.0 6.0 0.223	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.209	0.0 0.0 0.0 0.0	0.0 3.453 0.122 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
i	11 12 13 14	0.0 0.0 0.162 0.0	0.138 0.184 0.057 9.0 0.0	0.403 0.227 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.063 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.135 0.797 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.666 1.142 0.104
i 	16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.095 0.065 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.124 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.051	1.306 2.554 0.167 0.002
i !	21 22 23 24 25	0.0 0.0 0.0 0.0	0.0 0.0 0.025 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.113 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 6.0	0.0 0.0 0.0 0.171	0.0 0.0 0.0 0.224 0.807	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0
 	26 27 28 29 30	0.0 0.0 0.0 9.0 0.0	0.0 0.0 0.0	0.0 0.0 5.464 0.105 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.178 6.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	C.0 0.0E0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
HEA INC	BES	0.0052 0.025 0.684		0.2053 0.984 1.252	0.0036 0.017 1.079	0.2722 1.304 0.885		0.0037 0.016 0.462	0.0125 0.060 0.138	0.0409 0.190 0.486	0.1531 0.733 0.582	0.1387 0.643 0.452	

Conversion Factor: CFS to IN, DAY, multiply by 0.155557. Station Averages: 37 yr beginning 1941.

CCSHOCICN, OHIO WATERSHED 102

LOCATION: Coshocton Co., Obio; 10 mi. NE of Coshocton; Inscaravas River, Muskingum Biver Basin. Lat. 40 deg. 22 min. 25 sec. N.; Iong. 81 deg. 47 min. 42 sec. W.

1.26 acres AFFA:

P C	HIN	FEECIP:	ITATICN	ANE FUNOI	E (INCEE	s)		-	CCSECCICI	, OHIC	WATERSH	EC 102			
		Jan	E∈b	Ear	AFE	Ea y	Jun	Jul	lug	£€F	Oct	K c v	D∈c		Atrual
1977	P Q	1.12	1.03	3.45 0.013	4.43 0.018	1.22 0.301	2.47 0.000	7.83 0.027	2.46 0.000	6.84 0.003	2.85 0.294	4.22 0.073	3.1 0.3		46.85 0.749
STA AV	P Ç	1.98 0.039	2.26 0.)78	3.94 0.087	3.38 0.059	3.73 0.009	4.31 0.120	4.20 0.139	3.23 0.034	2.72 0.018	2.39 0.019	2.58 0.009	2.4 0.0		37.18 0.624
	ANN	DAL BAXII	 	HAEGE (in			axisus	vclume f	CFF (incl	ed Time	Interva	 1	INTEEV		Lays
		Date 1		Cate Vcl		Vol.			ate Vol.		Vol-	Cat€			Vol.
1977		15-1 (2.526 1	0-1 6.2	36 10- 1	0.269	10- 1	0.294 9	-30 0.29	64 S+30	0.294	9-29	0.254	10- 1	0.294
						EAXIEUE:	FCR PE	FIOD CF	PECCED						
		6-12 : 1957		8-12 1.3 1957	10 7- 5 1969		7- 5 1989		7- 5 2.47 1989	70 7- 5 1969		7- 5 1989	2.470	6-29 1989	

Matershed Conditions: Pastnre with a cover of orchardgrass.

Bags: Torographic/Hydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States,
1956-59, USDA Bisc. Put. 545, p. 26.1-4. For geology description and mar, see Bydrologic Data for Experimental
Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.1-1 and 26.30-3.

Precipitation: Fecords began April 1937. Data from rain gage V101.

Ennoff: Fecords tegan April 1537.
Long-Term Precipitation: National Meather Service records at Coshocton, Chio.

Wotes: Watershed discontinued Jan. 1, 1947 to Apr. 25, 1957 and Dec. 31, 1957 to March 29, 1960.

197	7 CA	ILY PEECI	FITATICE	(INCHES)			CCSHC	CICE, CHI	C WATERS	EEC 102		
Cay	Jan	Feb	Ear	ķķr	Бау	Jur	Jnl	Aug	Sep	Cct	Bcv	Dec
1 2 3 4 5	0.0 1 0.0 0.085 0.0	0.0 1 0.0 1 0.048 0.318	0.03S 0.0 0.10 0.32E 0.0	0.0 1.71 0.0 0.56E 0.12M	0.0 T 0.25 0.01 0.15 0.05	0.0 0.0 0.0 0.0 0.51	0.21 0.0 0.0 2.48 0.0 I	0.0 0.0 0.0 0.0 0.0	0.15 0.38 0.0 0.0 0.25	1.62 0.0 I 0.0 0.0	0.0 0.0 0.01E 0.0 T 0.02E	0.05 0.05 0.18 0.0 0.98E
6 7 8 9	0.055 0.095 0.0 0.145 0.085	0.0 0.0 0.0 0.0 0.0	0.0 T 0.0 0.0 0.0 C.0	0.01S 0.02E 0.0 0.0 0.0	0.76 0.0 0.0 0.0 0.0	0.0 0.0 0.74 0.08 0.0	0.0 0.46 0.0 0.C T	0.18 0.11 0.10 0.17 0.02	0.0 0.0 0.0 0.0	0.35 0.0 0.42 0.25 0.0	0.25 0.85 0.07 0.0 0.68	0.045 0.0 0.335 0.055
11 12 13 14 15	0.0 0.015 0.0 0.205 0.015	0.0 0.21 0.015 0.115 0.0 T	0.0 1.07 3.01F 0.0	0.0 0.0 0.0 0.11 0.0	0.0 0.0 0.0 0.0	0.17E 0.0 0.0 0.07 0.07	0.26 0.15 0.0 0.0	0.19 0.05 0.0 0.70 0.35	0.0 0.10 2.01 0.33 0.19	0.0 T 0.0 0.0 0.0 0.0	T 0.0 0.0 0.0 0.0 T 0.0	0.0 0.0 0.53E2 0.54E2
16 17 18 19 20	0.0 0.0 0.01s 0.01s	0.0 0.0 0.0 0.0	0.0 0.19 0.71 0.0 0.23	0.0 0.0 T 0.0 T 0.0 T 0.23	0.0 0.0 0.0 0.0	0.0 0.61E 0.01E 0.0	1.83 0.02 0.0 0.0 0.0	0.0 I 0.23 0.0 0.0	0.90 0.0 T 0.18 1.61 0.0 T	0.08 0.0 0.03 0.07 0.0	0.58E 0.55 0.0 0.0 0.05E	0.0 0.0 0.04 0.0 T
21 22 23 24 25	0.025Z 0.025Z 0.0 0.115 0.095	0.0 0.0 0.0 1 0.35	0.3 0.318 0.0 0.0	0.0 0.11 0.47 0.21 0.12	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.14	1.48 0.0 0.0 0.0	0.27 0.0 0.0 0.02E 0.0	0.0 0.0 0.0 0.16 0.0 T	0.0 0.0 0.0 0.0 0.0	0.33 0.0 T 0.0 T 0.0	0.0 0.045 0.0 0.17 0.0 I
26 27 28 29 30 31	0.105 0.0 0.105 0.0 I 0.0 I	0.0 0.0 I 0.0 I	0.0 0.9 0.44 0.0 0.04F	0.18 0.0 0.57 9.0 0.0	0-0 0-0 0-0 0-0 0-0	0.0 0.14 0.07 0.01 0.52	0.0 0.0 0.0 0.26 0.0	0.0 0.0 0.04 0.03	0.44 0.06E 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.10S 0.0 0.01 0.84	0.0 0.0 0.0 0.0 0.0
TOTAL STA AV	1.12 1.98	1.03 2.26	3.45 3.94	4.43 3.38	1.22 3.73	2.47 4.31	7.63 4.20	2-46 3-23	6.84 2.72	2.85 2.39	4.22 2.56	3.13 2.47

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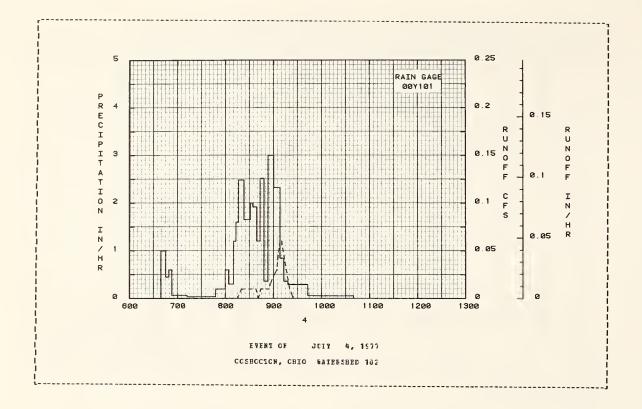
Air Tesperatures: See temperature table for Watershed 123, p. 26.010-1.
Gaging: Rain gage 1101.
Station Averages: 29 yr beginning 1937 (includes part-year records). Beasurements discontinued Jan. 1547-April
1957 and Dec. 1957-Barch 1560.
Rotes: Code 'I' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'I' indicates
that an accurately measured total for a series of days has been equally divided among coded days.

157	7	BEAN DAIL	Y DISCORE	GE (CFS)			CCSB	CCICN, CE	IC WATER:	EFE 162		
Day		P∈h	Bar			Jun			S∈p		Бсv	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.016	0.0	0.0
2	0.0	0.0	0_0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.3	0.0	0.0	0.0 I	0.0	0.0	0.001	0.0	0.0	0.0	0.0	u.0
<u> </u>	0.0	0.0		0.0 I	0.0	0.0 I		0.0	0.0	0.0	0.0	0.007
€	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	0.0	0.0	0.0	0.0 I	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ç	0.3	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0. ú	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0 I		0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0 I	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C.0 I	0.0	0.0	0.0	0.009
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0 I	0.0	0.0 I	3.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.003	ù - 0
1 €	0.0	0.0	0.0 I		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I		0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 3	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I		0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0 I	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0 T	0.0	0.0	0 - 0	0.0	0.0 I	0.0
31	0.0		0.0		0.0		0.0 1	0.0		0.0		0.0
EAB		G. 0		0.0	0.0	0.0	0.0	0.0	0.0	0.0005		
				0.018		0.000			0.003		0.073	
VA AT	0.039	0.078	0.087	0.059	0.009	0.120	0.139	0.034	0.018	0.019	0.039	0.01

Station Averages: 25 yr beginning 1937 (includes part-year records). Beasurements discontinued Jan. 1987-April 1957 and Dec. 1957-Barch 1960.
Conversion Factor: CFS to IM/EAY, multiply by 16.8902.

1 977 S1	ELECTED BONG	OFE EVENT				CCSECCT	Ch, CHIC	WATERSHED	102	
	CENT CONDI			FAI				FONCFE		
Date Mc-Day	Eainfall (irches)	Buncff (inches)			Intensity (in/hr)				late (cfs)	Acc. (inches)
						4577				
			E	FRI CF	JULY 4	1, 1577				
1	G 007101			FG 0011	101					
7- 4	0.0	0.0	7- 4	639	0.0	0.0	7- 4	€50	5.0	0.0
				645	1.0000	0.10		655	0.0	0.0
				649	0.4500	0.13		707	0.0	0.0
				653	0.6000	0.17		758	0.0	0.0
				712	0.0€32	0.19		8 1 2	0.0	0.0
	CCBCITICES:	:								
Pasture wit				748	0.0333	0.21		815	0.001	0.0000
of crchards	rass.			800	0.2000	0.25		820	0.007	0.0003
				€04	0.6000	0.29		838	0.007	0.0015
				8 10	0.3000	0.32		841	0.005	0.0022
				813	1.2000	0.3€		844	0.007	0.0024
				€1€	1. €000	6.48		847	0.013	0.0028
				823	2.4857	0.75		851	0.007	0.0033
				831	1.8500	0.97		854	0.007	0.003€
				8.24	2.0000	1.07		858	0.025	0.0044
				839	1.9200	1.23		904	0.029	0.00€8
				843	1.2000	1.31		908	0.057	0.0086
				848	2.5200	1.52		9 10	0.057	0.0103
				853	0.3600	1.55		9 2 0	0.010	0.0147
				900	3.0000	1.90		925	0.001	0.0151
				908	2.3250	2.21		932	0.0	0.0151
				913	0.8401	2.26		958	0.0	0.0151
				9 18	0.3800	2.31				
				943	0.2680	2.43				
				1040	0.0526	2.48				

Conversion Factor: CFS to IB/BF, multiply by 0.78772000.



26.001- 3

LOCATION: Coshocton Co., Chio; 19 mi. WE of Coshocton; Walkendirg River, Muskingum Biver Fasin. Lat. 40 deg. 22 min. 19 sec. N.; Iong. 81 deg. 47 min. 52 sec. W.

2.71 acres

20	KTHIY	PEECIF	TATICE	ANT EUNCE	E (INCEE	5)			CCSECCION	, CHIO	WATERSE	ED 129		
		Jan	P∈b	Far	W F I	may	Jun	Jul	₽ng	Seŗ	Oct	₽CA	D∈c	Arrual
1977	P Q	1.06	0.88 1.066	3.92 0.187	4.42 0.836	1.17 0.222	2.42 0.003	7.25 0.962	2.39 0.003	6.54 0.570	2.51 0.481	4.25 0.738	3.46 1.203	40.73 6.271
VA AF	P Q	2.62 J.197	2.38 0.213	3.51 0.160	3.45 J.114	3.68 0.052	3.88	4.31 U.168	2.99 J.058	2.76 0.065	2.13 9.027	2.47 0.030	2.37 0.075	36.55 1.256
	ANBU	AL BAXII		HAFGF (in			Baxiros	Vclume f	CEF linch	ed Time	Interva	1	INTEEVALS	fass
		Date 1		Cat∈ Vol		Vcl.			at∈ Vcl.					€ Vol.
1977		7−1€ 2	2.309	7-4 0.4	29 10- 1	0.461	12-14	0.50€ 12	-13 0.61	9 12-13	0.654	2-11 0	.709 11-2	7 0.746
						EAXIEUP:	EC2 FF	FICE CF	FECCED					
		7-11 2 1976		6-12 0. 9	80 9-1 1950	1.010	3- 4 1963	1.530 3	8- 4 2.42 1963	0 3- 4	2.900	3- 3 3 1963	.510 3- 196	

Watershed Conditions: Grass pasture.

Maps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-55, USDA Misc. Pub. 945, p. 26.3-5. For geology description and map, see Bydrologic Data for Experimental Agricultural Vatersheds in the United States, 1562, USDA Misc. Pub. 1070, pp. 26.3-1 and 26.30-3.

Frecipitation: Fecords began April, 1528. Lata from rain gage 100.

Ennoff: Records Legan April, 1538. Measurements discontinued June 1572 to March 1974.

Long-Term Frecipitation: National Weather Service records at Ocsbooter, Chic.

1977	ΕA	ILY PEECI	FITATICE	(INCBES)			CCSBC	CICN, CHI	C WATEES	BEC 129		
Гау	Jan	E∈b	as	Apr	2 a y	Jur	Jnl	Δug	S∈ŗ	Cct	Bc⊽	L∈c
1 2	0.0 T	0.0 I	0.03S	0.0	0.0 T 0.26	0.0	0.18	0.0	0.14	1.86 0.0 T	0.U	0.0 I
3	0.085	0.035	0.06	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01E	0.11
ц	0.0	0.245	3.36E	0.56E	0.15	0.0	2.55	0.0	0.0	0.0	0.0 1	0.0
5	0.0	0.3	0.0	0.108	0.05	0.46	r 6.0	0.0	0.31	0.0	0.02	1.18
6	0.052	0.0	0.0	U.01s	0.70	0.0 1	0.0	0.18	U = 0	0.32	0.29	0.045
? e	0.055	0.0	0.0 T	0.02	0.0	0.0	0.41	0.05	0.0	0.0	0.61	0.0
۶ ۶	0.0 0.185	0.0	0.0	0.0	0.0 0.C	0.78	0.0 0.0 I	0.11 0.13	0.0	0.46	0.09	0.51S 0.05S
10	0.105	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0€	0.25	0.60	0.032
11	0.0	0.0	0.0	0.0	0.0	0.15E	0.20	0.16	0.0	0.0 T	0.0 T	0.0
12	0.015	0.17	1.32	0.0	0.0	0.0	0.16	0.06	0.10	0.0	0.0	0.0
13	0.0	0.018	0.31E	0.0	0.0	0.0	0.0	0.0	1.87	0.0	0.0	0.11
14 15	0.215 0.615	0.07S	0.0	0.11	0.0	U.06 O.O	0.0	0.35	0.32	0.0	0.0 T	1.00
16	0.0	0.0	0.0	0.0	0.0	0.0	1.41	0.0 I	0.98	0.09	0.51	0.0
17 18	0.0 0.015	0.0	0.20	0.0 T 0.01E	0.0	0.01E 0.01E	E0.0	0.21	0.0 T 0.21	0.0	0.53	0.0
19	0.015	0.0	0.0	0.011	0.0	0.018	0.0	0.0	1.54	0.03	0.0	0.U5 0.0 I
20	0.02.	0.0 I 6.0	0.24	0.19	0.0	0.0	0.0	0.0	0.0 T	0.0	0.04E	0.24
21	0.015	0.0 T	0.0	0.0	0.0	0.0	1.39	0.25	0.0	0.0	0.34	0.0
22	0.025	0.0	0.30 8	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	0.035
2 3	0.0	0.0 T	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	0.0
2 4 2 5	0.075	0.36	0.9	0.22	0.0	0.0	0.3	0.02E	J. 15	0-C	0.0	0.12
25	0.072	0.5	0.0	0.17	0.0	0.12	r 0.0	0.0	0.0 1	0.0	0.68	0.0 I
2€	0.058	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0
27	0.0	0.0 I	0.3	0.0	0.0	0.14	0.4	0.0	0.06	0.0	0.118	0.0
28 29	0.065	0.0 7	0.51	0.60	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0 1		0.04E	0.0	0.0	0.47	0.28	0.04	0.0	0.0	1.00	0.0
31	0.0		0.0	0.0	0.0	0.47	0.64	0.03	v. 0	0.0	1.00	0.0
TCTAI	1.00	9.88	3.92	4.42	1.17	2.42	7.25	2.39	6.64	2.51	4.25	3.48
	2.62		3.51	3.45	3.68	3.68	4.31	2.55	2.76	2.13	2.47	2.37

Air Temperatures: See temperature table for Matershed 123, p. 26.010-1.
Gaging: Fain gage 100.
Station Averages: 39 yr beginning 153E (includes part-year records). Gage 100 discontinued June 1572 to Barob 1974.
Botes: Codes 'E' may reflect estimated storm duration rather than estimated rainfall about. Code '%' indicates
that an accurately measured total for a series of days has been equally divided among coded days.

Cooperative Besearch Project of USDA and Ohio Agricultural Besearch and Development Center, Wooster, Chic

197	7	MEAN DAIL	Y DISCHARG	E (CFS)			CCSEC	CICE, CE	C WATER	BEC 129		
Day	Jan	P∈b	Mar	Apr	Bay	Jun	Jn1	Aug	Sep	Cct	Ro▼	Iec .
1	0.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.055	0.0	r 0.0
2	0.0	0.0	0.0	0.057	r 0.0	0.0	0.0	0.0	T 0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	T 6.0	0.022	r 0.0	0.0	0.051	0.0	0.0	0.0	0.0	0.0
Ē	0 - 0	0.0	0.0	0.003	0.0	T 0.0	0.0	0.0	r 0.0	0.0	0.0	0.062
6	0.0	0.0	0.0	0.0	0.025	0.0	0.0	r 0.0	0.0	0.0	r 0.0	0.0
7	0.0	0.0	0.0	0.0	r 0.0	0.0	r 0.0	r 0.0	0.G	0.0	0.012	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	r 0.0	0.0	0.0	0.0 I	0.0
č	2.0	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	0.0	T 0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	0.0	0.0	0.005	0.0
11	0.0	0.034	0.0	0.0	0.0	0.0	0.0 T	r 0.0	0.0	0.0	0.0	0.0
12	0.0	0.335	0.009	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0
13	0.0	0.013	r 0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.004
14	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0 I	0.003	0.0	0.0	0.071
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	r 0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.045	0.0	0.002	0.0	0.002	0.0
17	9.0	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	0.0	0.0	0.049	0.0
18	0.0	0.0	0.012	0-0	0.0	0.0	0-0	0.0	0.0 I	0.0	0.0	0.0
19	0.0	6.006	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.0	0.0	0.0
20	0.0	0.0	T 0.0	r 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.013	r 0.0	0.0	0.0	0.001	0.0
22	0.0	0.030	0.0 T	0.0	0.0	0.0	r 0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.002	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.002	0.)	0.0	0.0	0.0	0 - C	0.0	0.0	0.0	0.0	0.0 I
25	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.003	0.0	0.0	0.0
27	9.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	T 0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.ù	0.0	0.0	0.0	3.0	0.3	0.0
30	0.0		0.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.023	0.0
31	0.0		0.0		0.0		0.0 T	0.0		0.0		0.0
BEAN	0.0	0.0043	0.0007	0.0032	3000.0	0.0	0.0035	0.0	0.0022	0.0018	0.0028	0.0044
INCEES	0.0	1.366	0.187	0.836	0.222	0.003	0.962	0.003	0.570	0.461	0.738	1. 203
STA AV	0.147	0.213	0.160	0.114	0.052	0.146	0.168	0.058	0.065	0-027	0.030	0.075

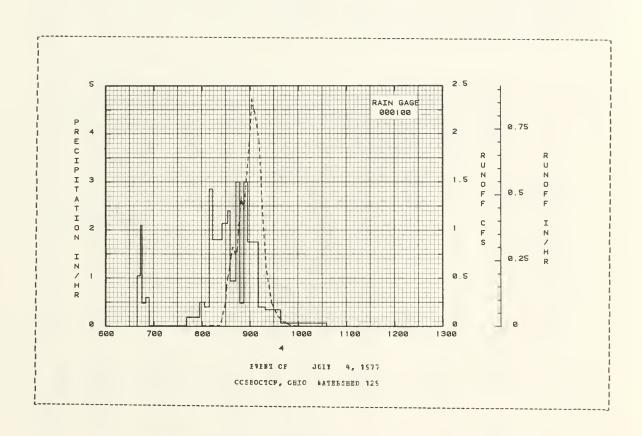
Staticn Averages: 39 yr beginning 1936 (includes part-year records). Beasnrements discontinued Jone 1972-Bar. 1974. Conversion Eactor: CES to IB/CAY, multiply by 8.7829.

7 SELECTED FUNO					CCSECCI	CM, CHIC	WATERSEED	129	
ANTECEDENT CONDIT				INFALL			EUNCFE		
Date Bainfall	Euncff	Date	Time	Intensity	Acc.	Late	Time	Eate	Acc.
to-Day (inches)	(inches)	Mo-Day	of Lay	(in/br)	(inches)	ĕc-Day	of Cay	(cfs)	(inches)
		E,	VENT CP	JULY 4	. 1977				
FG 000 100			RG 000						
7-4 0.0	0.0	7- 4	639	0.0	0.0	7- 4	642	0.0	0.0
			843	1.0500	0.07		644	0.0	0.0
			645	2.1000	0.14		648	0.002	0.0000
			650	0.4800	0.18		650	0.004	0.0001
			654	0.8000	0.22		70 1	0.002	0.0003
ATERSEED CONTITIONS:				5.000					
dly tramped grass			741	0.0128	0.23		728	0.0	0.0004
store, very sparse			757	0.1875	0.28		747	0.0	0.0004
outh.			603	0.5000	0.33		£ 10	0.006	0.0004
Owen.									
			809	0.4000	0.37		820	300.0	0.0012
			813	2.8500	0.56		822	0.009	0.0013
			821	1.8000	0.60		824	0.053	0.0017
			825	1.8000	0.92		828	0.196	0.0047
			832	2.1429	1.17		829	0.236	0.0060
			835	2.4000	1.29		8 30	0.328	0.0078
			842	0.9429	1.40		831	0.438	0.0101
			847	3.0000	1.65		832	0.500	0.0130
			852	0.4800	1.69		833	0.543	0.0161
			857	3.0000	1.94		834	0.586	0.0196
			910	1.7538	2.32		835	0.661	0.0234
			919	0.4000	2.38		836	0.712	0.0276
			313	0.4000	2.30		636	0.712	0.0270
			938	0.3474	2.49		837	0.764	0.0321
			1035	0.0632	2.55		8.53	0.820	0.0365
							839	0.820	0.0419
							641	0.764	0.0516
							842	0.738	0.0562
							844	0.792	0.0655
							845	0.987	0.0708
							849	1.340	0.0990
							852	1. 200	0.1222
							859	1.930	0.1222
							623	1.330	0. 1030

Conversion Factor: CFS to IN/EB, multiply by 0.365954.

977 	SELECTED BUNG	OPF EVENT				CCSECC	CR, CBIC	WATERSEE	I 129	
	TECHCEBI CORDII			BAS	NFALL			BUNCE		
1-05		Suucif (inches)	Date Mo-Day	Time of Cay	Intensity (in/hr)			Time of Lay	Bate (cfs)	Acc. (inches)
			EVENT)E J01	T 4, 157	7 (CCBII)	UEC)			
							7- 4	902	2.370	0.2284
								904	2.260	0.2566
								906	2.210	0.2839
								911	1.930	0.3470
								916	1.100	0.3932
								520	0.612	0.4141
								927	0.236	0.4322
								935	0.059	0-4404
								943	0.035	6.9435
								950	0.012	0.4446
								1001	0.004	C.4452
								1012	0.002	6.4454
								1112	0.0	0.4457
								1200	0.0	0.4457

Conversion Factor: CFS to IN/BF, multiply by 0.365954.



26.003- 3

CCSHCCICN, CHIC WATERSEEF 135

LOCATION: Coshecton Co., Chio; 10 mi. NE of Coshecton; Walbending Fiver, Muskingum Eiver Basin. Lat. 40 deg. 22 min. 20 sec. B.; Iong. 81 deg. 47 min. 46 sec. R.

2.69 acres AREA:

M C	NIEL	PEECIP:	ITATICE	AND FUNCE	F (INCEE	s)			CSHCCICN	, CHIC	RATEESE	EC 135		
_		Jan	F∈b	Mar	Aŗr	Вау	aut	Jul	109	S∈ £	Cct	₿C∀	1ec	Prruel
1977	F Q	1.60 0.0	0.88 0.9	3.92 6.001	4.42	1.17	2.42 0.0	7.25 C.038	2.39 0.000	6.64 0.017	2.91 0.217	4.25 C.0€8	3.48 0.169	46.73 0.530
SIA AV	P Q	2.62 0.039	2.38 0.122	3.51 0.102	3.44 0.033	3.67 0.016	3.68 0.092	4.31 0.068	3.00 0.035	2.76 0.035	2.13 0.040	2.46 0.003	2.37 0.015	36.53 0.601
	ANN	Maxis Discha	num arge	HAFGE (in	2	Bours	aximum 6 Ac	Volume fo	or Select 12 Bours	ed Time 1	Interva Day	1 2 Cay	e 8	Lays
1977		Dat∈ 1 10- 1 (Date Vcl	€8 10- 1		10- 1				Vcl. 0.217	9-29 0		23 0.217
		6-12	2 200	6-12 0.5					- 4 2.19	n == #	2 510	3_ 3 3	.060 3-	2 3 070

Natershed Conditions: Cover of improved pesture.

Maps: Topographic/Hydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 156659, USDA Bisc. Pub. 945, p. 26.4-5. For geology description and map, see Bydrologic Data for Experimental
Agricultural Watersheds in the United States, 1562, USDA Misc. Pub. 1070, pp. 26.4-1 and 26.30-3.

Precipitation: Records began April 1538. Data from rain gage 100.

Funoff: Records tegan April 1538. Measurements discontinued Dec. 1965 to March 1574.

Long-Term Precipitation: National Weather Service records at Coshoctor, Chic.

1977	DA	ILY PRECI	FITATICS	(IKCHES)			CCSBO	CICE, CEI	C WATERS	BEC 135		
Day	Jan	P∈b	Mar	Apr	May	Jur	Jul	Aug	Sep	Cct	No v	Dec
1 2 1 3 1 4 1 5	0.0 0.0 0.085 0.0	0.0 T 0.0 T 0.03S 0.24S	0.03S 0.0 0.06 0.36E 0.0	0.0 1.69 0.0 0.56E 0.10E	0.0 I 0.26 0.01 0.15 0.05	0.0 6.0 0.0 0.0 0.48	0.18 0.0 0.0 2.55 0.0 1	0.0 0.0 0.0 0.0 0.0	0.14 0.35 0.0 0.0 0.31	1.66 0.0 I 0.0 0.0	0.0 0.0 0.01E 0.0 T	0.0 1 0.04 0.11 0.0 1.18
6 7 8 9	0.055 0.055 0.0 0.165 0.105	0.0 9.0 0.0 0.0	0.0 0.0 T 0.0 0.0	0.01S 0.02H 0.0 0.0	0.70 0.0 0.0 0.0 0.0	0.0 T 0.0 0.78 0.08 0.0	0.0 0.41 0.0 0.0 I	0.16 0.09 0.11 0.13 0.02	0.0 0.0 0.0 0.0 0.0	0.32 0.0 0.46 0.25 0.0	0.29 0.61 0.09 0.0 0.60	0.045 0.0 0.515 0.055
1 11 12 13 14 15	0.0 0.018 0.0 0.218 0.018	0.0 0.17 0.018 0.075 0.0 T	0.0 1.32 0.01B 0.0 9.0	0.0 0.0 0.3 0.11	0.0 0.0 0.0 0.0	0.15E 0.0 0.0 0.06 0.06	0.20 0.16 0.0 0.0 0.0	0.16 0.06 0.0 0.74 0.35	0.0 0.10 1.87 0.32 0.19	0.C T 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 T 0.0	0.0 0.0 0.11 1.00
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.015 0.025 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.20 0.65 0.0 0.24	0.0 T 0.0 T 0.01E 0.0 T 0.19	0.0 0.0 0.0 0.0	0.0 0.01E 0.01E 0.0 0.0	1.41 0.03 0.0 0.0 0.0	0.0 T 0.21 0.0 0.0	0.86 0.0 T 0.21 1.54 0.0 T	0.09 0.0 0.03 0.07 0.0	0.51 0.53 0.0 0.0 0.04E	0.0 0.0 0.05 0.01 0.24
21 22 23 24 25	0.015 0.025 0.0 0.075 0.075	0.0 1 0.0 0.0 1 0.36	0.0 5.368 0.0 0.0	0.0 0.10 0.48 0.22 0.17	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.12	1.35 0.0 0.0 0.0	0.25 0.0 0.0 0.02E	0.0 0.0 0.0 0.15 0.0	0.0 0.0 0.0 0.0	0.34 0.0 T 0.0 T 0.0 0.08	0.0 0.038 0.0 0.12 0.0 T
26 1 27 1 28 1 29 1 30 1 31	0.055 0.0 0.065 0.0 I 0.0 I	0.0 0.0 1 0.0 I	0.0 0.51 0.0 0.04E 0.0	0.16 0.0 0.60 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.14 0.11 0.01 0.47	0.0 0.0 0.2 0.2 0.0 0.64	0.0 0.0 0.0 0.04 0.03	0.46 0.06 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.11s 0.0 0.02 1.00	0.0 0.0 0.0 0.0 0.0
I TOTAL STA AV	1.00 2.62	0.88	3.92 3.51	4.42 3.44	1.17 3.67	2.42 3.68	7.25 4.31	2.35	6.64 2.76	2.91 2.13	4.25 2.46	3.46 2.37

Cooperative Research Project of OSDA and Chic Agricultural Research and Development Center, Wooster, Chic

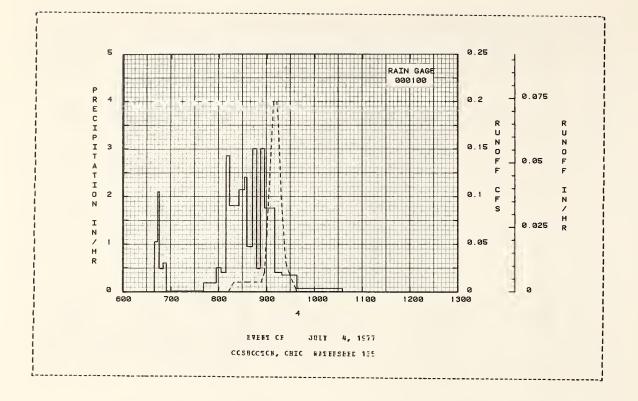
Air Temperatures: See temperature table for Watershed 123, p. 26.010-1.
Gaging: Fain gase 100.
Station Averages: 39 yr beginning 1936 (includes part-year records). Gage 100 discontinued June 1972 to March 1974.
Botes: Code "E" may reflect estimated storm duration rather than estimated rainfall amount. Code '2' indicates
that an accurately measured total for a series of days has been equally divided among coded days.

197	7	MEAN DAIL	LY IISCHAR	GE (CFS)			CCER	CICN, CH	IC WATER:	SBEC 135		
Lay	Jan	Feb	Mar	Apr	Ľ ay	Jer	Jel	A 1119	S€F	Cct	₽CA	£€c
1	0.0	0.0	C . O	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0
2	0.0	6.0	9.0	0.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3.0	6.0	0.0	0.0	0 - C	0.0	0 + C	0.0	0_0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.6	0.0	0.003	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	(.645
8	0.0	Ú. Ú	0.0	0.0	0.6 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0
έ	0.0	0.0	5.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
ç	0.0	C.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1ง	5.0	0.0	0.0	0.0	0.0	0.0	U-1	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0 - 0	0.0	0.0	0.0	6 . 0
12	0.0	C.O	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	6.9 T	0.0	0.0	0.0	U . J	0.0	0.0 I	0.0	0.0	0.0
14	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	0.0 1	0.0	0.0	0.012
15	9.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.3	6.3	0.0	0.0	0.0	0.001	0.0	0.0 T	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0
16	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	U_0	0.0	0.0
21	0.0	0.0	6.9	0.0	0.0	0.0	0.6 I	J.0	0.6	0.0	0.0	C-0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
23	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.ù	0.0	0.0	0.0	0.6
26	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0
2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0
29	0.0		0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.3	0.0
31	3.0		0.0	•••	0.0	000	0.0 I	0.0	***	C.0		0.0
EAN	0.0	G.0	C.O	0.0	0.0	0.0	0.0001	0.0	0.0001	0.0008	0.0003	6.000
BCBES	0.0	0.0	0.001	0.0	0.000	0.0	0.036	0.000	0.017	0.217		0.16
IA AV	0.039	0.123	0.102	0.033	0.016	0.092	0.066	0.035	0.035	0.040	0.003	0.01

Ctation Averages: 36 yr Leginning 1936 (ircludes part-year records). Beasurements discontinued fec. 1969-Bar. 1974. Conversion Factor: CFS to IN/DAY, multiply by 6.6463.

1977 SELECTI	C EURO	PP EVENT				CCSFOCT	Ch, CBIO	WATERSHE	135	
ANTECEDENT					I N P A L L			FORCE	E	
Dat∈ Fair Bo-Day (iro	fall bes)	Funcff (inches)			Intersity (in/hr)				Fate (cis)	
			F	FRI CE	JOIY 4	, 1577				
FG OCC	100			FG 000	100					
7-4 0	-0	0.0	7- 4	639	0.0	0.0	7- 4	812	0.0	0.0
				€43	1.0500	0.07		819	0.016	0.0001
				€45	2.1000	0.14		840	0.006	0.0009
				8.50	0.4600	6.16		645	0.009	0.0011
				654	0.6000	0.22		649	0.012	0.0013
WATERSHED COMIT										
Orchardgrass pas	ture,			741	0.0128	0.23		853	0.012	0.0017
heavy growth.				757	0.1675	0.26		657	0.020	0.0021
				€93	0.5000	0.33		900	0.060	C.0026
				809	0.4000	0.37		907	0.164	0.0061
				813	2-E50C	€.5€		908	0.196	0.0092
				£21	1.6000	0.86		912	0.156	0.6141
				825	1.6000	0.92		914	0.184	0.0164
				832	2.1429	1.17		9 18	0.099	0.0199
				8 3 5	2.4000	1.29		922	0.053	0.0217
				€42	0.9429	1.40		924	0.030	0.0222
				847	3.000C	1.65		928	0.016	0.0228
				852	0.4600	1.69		938	0.904	0.0234
				€57	3.0000	1.94		944	0.002	0.0235
				9 10	1.7538	2.32		1100	0.0	0.0240
				919	0.4000	2.38		1145	0.0	0.0240
				938	0.3474	2.49				
				1035	0.0632	2.55				

Conversion Factor: CPS to IB/BF, multiply by 0.3686800.



26.004- 3

COSHCCION, CHIC WATERSHEE 123

LCCATION: Coshocton Co., Chio; 10 mi. ME of Coshocton; Inscarawas Siver, Muskingum River Basin. Lat. 40 deg. 22 min. 23 sec. B.; Iong. 81 deg. 47 min. 20 sec. W.

AFFA: 1.37 acres

80	CRIBL	PHECIP	ITATICE	AND FUNC	EP (INCHE	S)			COSHCCIC	, CHIC	WATERSE	EC 123		
		Jan	Peb	far	Apr	Bay	Jun	Jnl	λυg	SeF	Cct	BCV	Ľ€C	Preuzl
1977	P Q	0.90	0.31 0.315	3.97 0.467	4.38 0.871	1.19	2.44	7.55 0.063	2.35 0.0	6.61 0.296	3.01 0.864	4.32 0.762	3.57 2.061	41.00 5.656
STA AV	P Q	2.66 0.377	2.40 0.411	3.51 0.450	3.52 0.266	3.70 0.125	4.09 0.237	4.37 0.188	3.01 0.106	2.80 0.064	2.30 0.047	2.65 0.076	2.50 0.209	37.52
	BNBU	DAL BAXI	807 0150	CHARGE (1	n/hr) Anu	ENXIBU	B VOLUBE:	S OF FUE	NCEE (inch	ies) for	SELECTE	O TIBE I	BILLANTS	
		Maxi		4 8					for Select					
		Maxi Disch Date	arge	1 Honr Date Vc			Eaximum 1 6 Hc	urs	for Select 12 Honrs Jate Vol.	1	Interva Day Vol.	1 2 Cay Cate V		lays
1977		Disch	arge Bate	Uate Vc	l. Uat∈	Wol.	6 Hc	ors Vol. 0	12 Honrs	1 Cate	Day Vol.	2 Cay Cate V	cl. Dat	e vol.
1977		Disch Date	arge Bate	Uate Vc	1. Date 99 10 - 1	Wol. 0.717	6 Hc	0.820 12	12 Honrs Jate Vol.	1 Cate	Day Vol.	2 Cay Cate V	cl. Dat	e vol.

Watershed Conditions: Meadow with cover of crohardgrass and alfalfa.

Maps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States,
1956-55, USDA Misc. Put. 945, p. 26.10-6. For geology description and map, see Bydrologic Lata for Experimental
Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.10-1 and 26.30-3.

Precipitation: Fecords began Jan. 1939. Lata from rain gage Y103.

Fronoff: Fecords tegan Jan. 1939.

Long-Term Precipitation: Wational Weather Service records at Coshocton, Chic.

į	19	77 DAILY	AIR TEEP	EBATORE (C	PGFEES E)			CCSI	CCICH, C	SIC WATER	SHEC 123		
į	E a y	Jan wax wir	P∈b max min	Har max min	Apr max min	tay wax min	Jun max sin	Jul max mir	Ang max min	Sep max min	Cct max min	Bcv max min	Dec max mir
	1	11 1	18 8	35 21	61 45	75 49	79 58	79 66	77 62	87 68	72 55	63 46	58 36
	2	20 11	24 3	41 16	64 50	67 59	65 46	79 61	80 56	86 69	57 47	70 47	42 32
	3	25 16	33 24	53 28	59 40	70 54	70 43	61 56	82 60	77 61	58 46	70 56	35 29
	4	28 21	30 23	55 41	57 45	68 58	82 49	77 64	85 64	81 58	64 47	67 57	36 23
	5	28 16	22 7	42 33	57 31	76 60	71 61	93 70	85 71	86 66	65 45	73 57	50 27
	6 7 8 9	26 15 26 6 20 -2 23 12 32 9	11 -5 16 -3 22 0 39 20 46 30	45 29 35 27 55 24 65 40 65 45	35 25 47 25 35 22 47 20 75 33	75 62 67 43 68 37 47 38 55 36	74 45 58 43 64 43 63 50 70 46	92 70 92 69 67 69 85 67 80 63	85 71 84 69 76 66 82 67 62 69	77 60 81 57 79 60 80 63 75 58	61 45 57 39 60 49 59 45 60 46	70 59 69 56 63 54 70 55 63 32	27 4 14 4 23 5 25 0 11 1
	11	7 -5	48 37	71 45	79 54	66 42	69 51	85 67	81 64	71 53	60 38	37 31	16 2
	12	9 4	40 33	58 54	82 56	73 46	69 53	79 69	73 61	70 49	49 37	37 26	37 6
	13	20 -6	37 29	57 46	81 58	82 57	78 57	87 66	77 67	77 62	49 39	39 25	47 34
	14	30 25	33 25	53 45	67 53	75 59	79 63	88 65	82 66	69 57	52 36	34 27	51 36
	15	25 16	24 13	74 41	69 46	77 52	82 59	69 67	82 64	67 55	60 35	55 33	35 31
	16	16 -12	20 7	63 42	66 49	82 55	82 63	90 70	64 67	69 65	41 33	53 46	57 31
	17	-4 -21	21 2	50 33	74 54	85 60	86 67	67 69	75 61	77 66	49 29	46 38	57 29
	18	4 -5	35 13	50 31	76 58	85 65	85 67	90 67	70 54	80 65	60 43	40 36	50 29
	19	23 -4	36 25	45 30	80 61	82 66	83 63	90 73	72 51	75 66	51 42	47 31	47 37
	20	20 3	26 20	45 35	61 61	67 63	61 63	91 74	73 51	68 57	57 42	55 40	44 21
	21	19 11	26 12	57 30	79 65	85 63	77 58	86 64	74 57	62 54	63 37	56 32	31 21
	22	17 6	53 21	47 31	69 63	64 64	73 55	78 60	75 60	68 51	66 47	41 30	26 21
	23	21 -1	58 42	48 27	68 47	83 65	78 55	80 56	79 56	74 55	59 45	52 35	41 26
	24	29 20	53 34	37 25	54 45	86 63	81 59	83 59	76 55	74 63	69 47	44 30	52 32
	25	27 19	48 38	47 23	50 41	64 65	62 66	79 63	72 51	75 62	63 50	39 28	41 10
	26 27 28 29 30 31	28 9 11 0 27 -9 5 -12 9 2 13 -1	47 33 58 27 32 26	57 29 71 41 65 53 77 52 79 60 59 41	48 40 68 37 63 33 56 31 66 40	60 57 66 57 89 63 90 64 64 56 65 64	85 65 86 64 77 69 79 64 80 60	72 59 73 55 79 56 72 67 83 66 84 64	62 54 65 71 87 72 85 70 80 68 85 65	75 58 75 55 66 50 71 44 72 54	71 53 69 51 60 42 59 39 61 41	29 17 33 14 34 21 33 23 54 33	15 4 16 10 15 5 32 17 35 27 36 27
1	AV.	19 5	34 19	55 36	64 44	77 56	76 57	84 65	60 63	75 59	59 43	51 37	36 21
	BEAN	12.0	26.8	45.5	54.1	67.0	66.6	74.4	71.3	66.8	51.3	44.3	28.7
	SIA AV	33 19	36 20	47 28	58 42	68 49	79 58	81 62	82 61	74 54	65 44	51 33	37 22

1 51A AV 33 15 36 20 47 28 58 42 68 49 79 58 81 62 82 61 74 54 65 44 51 33 37 22]
Staticn Averages: 39 yr beginning 1935. Eata from Borth Appalachien Experimental Watershed.

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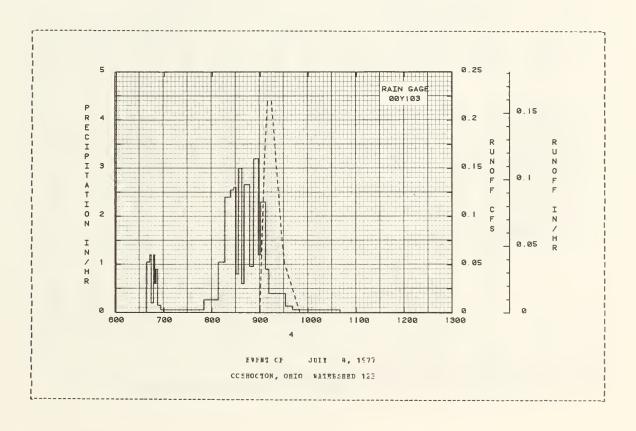
1977	D A	ILY PFECI	FITATION	(IKCHES)			CCSBC	CICN, CHI	C WATERS	FEE 123		
Lay	Jan	F€b	Mar	ykı	2sy	Jur	Jtl	Aug	S€p	Cct	lc v	£€C
1 1 2 1 3 1 4 5 5	0.0 9 0.0 0.075 0.0 0.0	0.0 T 0.0 T 0.64S 0.20S 0.J	0.038 0.0 0.10 0.32E 0.0	0.0 1.70E 0.3 0.62E 0.05E	0.0 1 0.26 0.01E 0.16 0.04	0.0 0.0 0.0 0.0 0.50	0.20 0.0 0.0 2.60 0.0 I	0.0 0.0 0.0 0.0 0.0	0.27 0.35 0.0 0.0 0.15E	1.68 0.0 I 0.0 0.0	0.0 0.0 0.01E 0.01 0.02E	0.0 T 0.05 0.21 0.0 1.16E
6 7 8 9	0.035 0.065 0.0 0.155 0.055	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.018 426.0 0.0 0.0 0.0	0.72 0.0 0.0 0.0 0.0	0.0 0.78 0.09 0.09	0.0 34.0 0.0 0.0 0.0	0.18 0.11 0.09 0.11 0.04	0-0 6-0 0-0 0-0 0-07	0.30 0.0 0.53 0.27 0.0	0.29 0.76 0.09 0.0 0.60	0.035 0.0 0.548 0.075
 11 12 13 14 15	0.0 0.015 0.0 0.205 0.015	0.0 0.16 0.01m 0.39s 0.0 T	0.0 1.27 0.01E 0.0 0.0	0.0 0.0 0.0 0.12 0.0	0-0 0-0 0-0 0-0	0.14E 0.0 0.0 0.08	0.20 0.15 0.0 0.0	0.20 0.05 0.0 0.67 0.33	0.0 0.10 1.90 0.36 0.21	0.0 0.0 0.0 0.0 0.0	r 0.0 0.0 0.0 r 0.0 r 0.0	0.0 0.0 0.53E2 0.54E2
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.015 0.015 0.0	0.0 C.0 C.0 0.0	0.0 0.24 0.64 0.0 0.22	0.0 0.0 T 0.01E 0.0 T 0.20	0-0 0-0 0-0 0-0	0.0 0.01E 0.01E 0.0	1.45 0.02 0.0 0.0 0.0	0.0 T 0.22 0.0 0.0	0.86 0.0 T 0.23 1.43 0.0 T	0.09 0.0 0.03 0.08 0.0	0.49E 0.50 0.0 0.0 0.05E	0.0 0.0 0.05 0.07 0.24
21 22 22 23 24	0.0152 0.0152 0.0 0.055 0.045	0.0 T 0.3 0.0 T 0.31 0.3	0.0 0.30 H 0.0 0.0	0.0 0.10 0.46 0.18 0.11	0.0 0.0 0.0 0.0	0.0 C.G 0.0 0.0 0.13	1.45 0.0 0.0 0.0	0.26 0.0 0.0 0.03E	6.0 0.0 0.0 0.14 0.0 T	0.0 0.0 0.0 0.0	0.32 0.0 T 0.0 T 0.0	0.0 210.0 0.0 0.0 0.14
26 27 28 29 30	0.045 6.0 0.075 0.0 1 0.0 1	6.0 F 6.0 F 6.0	0.0 0.0 0.50E 0.0 0.04E 0.0	0.18 0.0 0.58 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.12 0.09 0.01 0.48	0.0 0.0 0.27 0.0 0.65	0.0 0.0 0.0 0.04E 0.02E	C.45 0.07 0.0 C.6	0.0 0.0 0.0 0.0 0.0	0.0 0.128 0.0 0.61 0.95	0.0 0.0 0.0 0.0 0.0
TCTAI STA AV	0.90 2.66	0.81 2.40	3.87 3.51	4.38 2.52	1.19 3.70	2.44 4.69	7.55 4.37	2.35 3.01	6.61 2.80	3.01 2.36	4.32 2.65	3.57 2.50

197	7	MEAN DAIL	Y LISCHAR	GE (CFS)			CCSBC	CICE, CB	IC WATER	SBIC 123		
Day	Jan	F∈b	Mar	Apr	řa y	Jur	Jul	Aug	Sep	Cct	E C♥	[ec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	6.0	0.0 I
2	0.0	0.0	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	6.3	0.0 I	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.001
4	0.0	6.0	0.0	800.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.002
5	0.0	0.0	0.0	r 0.0	0.0	0.0	0 - 0	0.0	6.0	0.0	0.0	0.050
6	9.0	0.0	6.0	C.U	0-0 т	0.0	0.0	6.0	0.0	0.0	0.0	r 0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.C 1	0.0	0.0	0.0	0.001	0.0
8	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6	0 - C	C.O
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0
10	0.ŭ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	U.001	0.0
11	0.0	0.0	C. ü	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C.0	0.0
12	0.0	0.004	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.002	0.631	0.0	0.0	0.0	0.6	0.0	0.001	0.0	0.0	0.001
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.064
15	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	0.0	0.0 1	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	0.0
18	0.0	0.0	0.015	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.0
20	0.0	0.0	G.0	0.0	0.0	0.0	0.0	C.0	0.0 T	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0 I	0.0
22	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0 I	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C-0
28	6.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	G.0	0.0	0.0	0.026	0.0
31	0.0		0.0		0.0		0.C 1	0.0		0.0		0.0
JEAN	0.0	0.0006	0.0009	0.0017	0.0	0.0	0.0001	0.0	0.0006	0.0016	0.6615	0.0036
DCBES	0.0	0.315	0.467	0.871	0.000	0.0	0.063	0.0	0.25€	0.864		2.061
VA AF	0.377		0.450	0.266	0.125	0.237	0.166	0.106	0.064	0.047	0.076	0.209

Conversion Eactor: CPS to IN/LAY, moltiply by 17.3735.

577 SELECTED	FUROFE EVERT				CCSFCC3	CP, CHIC	WAIFFSEE	I 123	
AKTECEPPET C	CNETTIONS		E B 7	TREATT			FUNCE	F	
Tate Fainf	all Buncff es) (incles)	Dēt∈	Time	Intersity	Acc.	[at∈	Time	Fate	Acc.
Bc-Day (irch	es) (inches)	ĕo-Cay	of Cay	(in/tr)	(inches)	Sc-Day	of Cay	(cfs)	(inches)
		ě	AERI Ch	JULY 4	, 1977				
RG OCY1			FG 00 Y						
7- 4 0.	0.0	7- 4			6.0	$\gamma = I_4^*$		3.0	
			€42	1.0500	6.37		845	0.0	0.0
			644	1.2000	6.11		855	9.0	0.0
			647	9.2030	0.12		900	2.004	0.0001
			648	1.2000	0.14		903	0.050	0.0018
RATESSED CONFID	ICNS:								
Field of alfalta			653	0.6000	u . 16		906	0.172	0.0066
orchardgrass.			652	0.5000	0.19		909	0.222	
orcasiagrass.			656	0.1500			914		0.0271
			750	0.0556	0.25			0.067	0.0515
			750	0.2667			928 931	0.067	0.0535
			/25	0.2667	9.25		931	17. U4E	0.0535
			808	0.2667			950		0.0593
			8 16	1.0500			956	0.002	0.0595
			823	2-4000	0.75		1100	0.0	0.9663
			€ 27	2.5500	0.92		1200	0.0	0.0603
			830	2.6000	1.65				
			833	0.5600	1.09				
			837	3.0000	1.25				
			840	0.6020	1.32				
			847	2.6571					
			852	0.9600					
			6.2	0.3000	1. / 1				
			858	3.2000	2.03				
			901	1.2000	2.05				
			907	2.3000	2.32				
			911	0.9000	2.38				
			917	0.4001					
			932	0.4000	2.52				
			941	0.1334					
			1040	0.0610					
			1040	0.0010	2.00				

Conversion Factor: CES to IN/HF, multiply by 0.72389000.



28.010- 3

COSECCION, CHIC WATERSHEE 109

LOCATION: Coshocton Co., Ohio; 10 mi. AE of Coshocton; Tuscarawas Fiver, Muskingum River Basin. Lat. 40 deg. 22 min. 11 sec. B.; Iong. 81 deg. 47 min. 35 sec. W.

1.55 acres ABEA:

B(NTHI	A bæecib	ITATION	ANC FO	UFOFE	(IFCFF:	5)			CCSE	CCION,	CHIC	WATERSH	EE 169			_
		Jan	F∈b	ĕar	A	ÈI.	Бау	Jun	Jul	èτ	g	£€ŗ	Cct	Bcv	ĵ e c	: ;	rruzl
1977	ę Q	0.74 9.0	₹.78 1.856	3.65		.35 .060	1.21	2.34	7.08 0.11			6.86 0.029	2.53	4.04			9.41 2.456
VA AF	P Q	2.55	2.25 0.220	2.43 0.10			3.69 0.082	4.05 0.241	4.37 0.26			2.82 0.043	2.24 0.011	2.57 0.00			1.251
	AN 11	DAL MAXI Baxi Cisch Date	 Bum argc	1 E		2 1		aximum 6 H		fcr S	electe lours	c Time	Interva Day Vol.	1 2 C	 а у s	8 1	ays Vol.
1977		2-22	0.138	2-22	D. 134		0.263 BAXIMUMS					2-22	0.957	2-22	1.256	2-17	1.275

Ratershed Conditions: Meadow with a stand of orchardgrass and alfalta.

Majs: Topographic/Bydrologic - Hydrologic Lata for Experimental Agricultural Matersheds in the United States, 1956-59, OSDA Mise. Pub. 595, p. 26.13-4. For ceology descriptic and mag, see Aydrologic Lata for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Fub. 1070, Fg. 26.13-1 and 26.30-2.

Precigitation: Fecords began Nov. 1938. Lata from rain gage Y102.

Eunoff: Fecords began Nov. 1538.

Long-Term Precipitation: National Weather Service records at Coshocton, Chic.

1977	CA	ILY PRECI	FITATICN	(IECHES)			CCSEC	cica, cai	C WATERS	BEC 109		
Lay	Jan	P∈b	Mar	ytı	Hay	Jur	Jul	Aug	Sep	Cct	Nov	Dec
1 2 1 2 1 3 1 4	0.0 0.0 0.075 0.0	0.0 I 0.0 I 0.028 0.198	0.63S 0.0 0.10 0.32E 0.0	0.0 1.69 0.0 0.57E 0.128	0.0 T 0.26 0.01E 0.16 0.05	0.0 0.0 0.0 0.0 0.47	0.20 0.0 0.0 2.45 0.0 I	0.0 0.0 0.0 0.0	0.24 0.36 0.0 0.0 0.31	1.62 0.0 T 0.0 0.0	0.0 0.0 0.01E 0.0 T 0.02E	0.0 T 0.05E 0.13E 0.0 1.03E
	0.025 0.085 0.0 0.065 0.085	0.3 0.9 0.0 0.9	0.0 r 0.0 5.0 0.0	0.01S 0.02H 0.0 0.0	0.73 0.0 0.0 0.0 0.0	0.0 T 0.0 0.73 0.09	0.0 0.48 0.0 0.0 T	0.18 0.11 0.68 0.15 0.02	0.0 0.0 0.0 0.0 0.0	0.30 0.0 0.52 0.27 0.0	0.26 0.61 0.05 0.0 0.61	0.045 0.0 0.415 0.045 0.0
 11 12 13 14 15	0.0 0.018 0.0 0.178 0.018	0.16 0.018 0.098 0.098	0.0 1.18 0.01B 0.0	0.0 0.0 0.0 0.11	C.O O.O O.O O.O	0.16E 0.0 0.0 0.06 0.06	0.16 0.17 0.0 0.0	0.16 0.07 0.0 0.66 0.24	0.0 0.05 2.00 0.33 0.15	0.0 T 0.0 0.0 0.0 0.0	r 0.0 0.0 0.0 0.0 r 0.0	0.0 0.0 0.0 SE 0.85E
1 16 17 18 19 20	0.0 0.0 0.015 0.015 0.0	0.0 C.0 C.0 U.0	0.0 0.19 0.78 0.0 0.22	0.0 0.0 T 0.0 T 0.0 T 0.15	0.0 0.0 0.0 0.0	0.0 0.01E 0.01E 0.0	1.41 0.02 6.0 0.0	0.0 T 0.21 0.0 0.0	0.90 0.0 T 0.22 1.53 0.0 T	0.08 0.0 0.03 0.08	0.50E 0.54 0.0 0.0 0.05E	0.0 0.0 0.05 0.0 1
1 21 1 22 1 23 1 24 1 25	0.0152 0.6152 0.0 0.075 0.075	1 0.0 0.0 1 0.0 1 E.0	0.0 0.30M 6.0 0.0	0.0 0.10 0.52 0.19 0.10	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0 0.12	1.25 0.0 0.0 0.0 0.0	0.25 0.0 0.0 0.03E 0.0	0.0 0.0 0.0 0.10 0.0 T	0.0 0.0 0.0 0.0	0.32 0.0 T 0.0 T 0.0	0.0 0.025 0.0 0.14 0.0 T
26 27 28 25 30	0.025 0.0 0.045 0.01 0.01	0.0 T 0.0 T C.0	0.0 0.48 0.0 0.04E	0.16 0.0 0.56 0.0	0.0 0.0 0.0 0.0 0.0	9.6 0.12 0.11 0.01 0.45	0.0 0.0 0.29 0.0 0.63	0.0 0.0 0.0 0.05E 0.03E	0.50 0.06 C.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.06s 0.0 0.01 0.66	0.0 0.0 0.0 0.0 0.0
I TCTAI STA AV	0.74 2.55	0.78 2.25	3.65 3.43	4.35 3.45	1.21 3.69	2.E4 4.05	7.08 4.37	2.34 2.94	6.86 2.62	2.93 2.24	4.04 2.57	3.05 2.38

Air Temperature: See table for Watershed 123, p. 26.010-1.

Air Temperature: See table for Watershed 125, p. 20.0 NO.10-1.
Gaging: Bain gage 1102.
Station Averages: 40 yr beginning 1938 (includes part-year records).
Botes: Code 'I' may reflect estimated storm duration rather than estimated rainfall amounts. Code '2' indicates that an accurately measured total for a series of days has been divided equally among coded days.

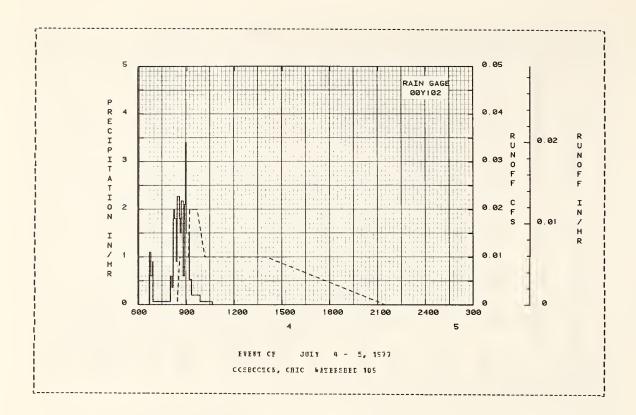
Cooperative Research Project of OSCA and Obic Agricultural Research and Development Center, &coster, Obic

197	17	MFAN DAIL	T DISCEASE	SE (CFS)			CCSB	CCICE, CB	IC WATER	SFFE 109		
Day	Jan	F∈b	Bar	Apı	łay	Jut	301	λυg	Sef	Cct	\$cv	I e c
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.6	0.0
2	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	C.0	0.0	0.0	0.0 T	0.0	0.0	0.00€	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.6	0.007
€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
٤	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.3	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	C.0	0.0	0.0	0.0	0.0	0.0
11	3.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	9.0	0.0	0.0	0.0
12	0.0	0.025	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.017	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	u . 0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	3.0	0.015
15	0.0).3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0
16	0.0	0.5	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.3
17	0.0	0.0	0.0	0.0	0.0	0.0	0_0	0_0	0.0	0.0	0.0 1	0.0
18	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
20	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
22	0.0	0.053	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
23	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.3
24	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
2ε	3.0	0.3	0.0	0.0	0.0	0.0	0.0	9.0	J.0	0.0	9.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
31	0.0		0.0		0.0		0.0 1	0.0		0.0		0.0
AB	0.0	0.0047	0.0001	0.0001	0.0	0.0	0.0003	0.0	0.0001	0.0001	0.0001	0.000
CHES	0.0	1.866	0.022	0.060	0.0	0.0	0.115	0.0	0.029	0.044	0.023	0.29
A A V	0.077	0.220	0.135	0.045	0.082	0.241	0.263	0.138	0.043	0.011	0.002	0.02

Station Averages: 40 yr begirning 1938 |includes part-year records).
Conversion Factor: CFS to IB/DAY, multiply by 14.0638.

SFLECTED BONOF							WATERER		
ARTECEDEBT CCBDITI				INFALL			FORCE		
Date Bainfall Bo-Day (irches)	Suncff (incles)	Date Eo-Day	Tipe of Tay	Intensity in/br)	Acc. [inches]	Dat∈ Mc-Day	Time of Day	Fate (cfs)	
		EVF	N1 CF	JULY 4 -	5, 1977				
EG 001102			EG OOT	10 2					
7- 4 0.0	0.0	7- 4	€ 40	0.0	0.0	7- 4	621	0.0	0.0
			646	1.1000	0.11		622	0.001	0.0
			652	0.6000	0.17		624	0.002	0.0000
			£ <u> </u>	0.9000	0.20		825	0.004	0.0001
			800	0.0636	0.27		€35	0.010	0.0007
TEBSEED CCBLITICES:									
dow with a stand of			805	0.6000	0.32		846	0.014	0.0020
bardgrass and alfalfa	a.		810	0.3600	0.35		908	0.014	0.0050
			812	1.8000	0.41		912	0.023	3200.0
			815	2.0000	0.51		922	0.023	0.0080
			€22	1.8000	9.72		940	0.019	0.0117
			824	0.5400	0.75		10 10	0.014	0.0185
			833	2.2867	1.05		1400	0.010	0.0435
			38	1.6000	1.18		2130	0.004	0.0743
			840	1.5000	1, 28		2400	0.002	0.0787
			€4€	2.1750	1.57	7- 5	127	0.001	0.030.0
			852	0.6000	1.61		140	0.0	0.0801
			856	2.1000	1.75				
			823	3.4000	1.52				
			911	1.5000	2.22				
			919	0.5250	2.25				
			952	0.2000	2.40				
			1038	0.0652	2.45				

Conversion Factor: CPE to IB/BB, multiply by 0.58682000.



26.013- 3

LCCATION: Coshoctom Co., Chio; 10 mi. RE of Coshoctom; Walhonding Fizer, Muskingum Riwer Basin. Lat. 40 deg. 71 mim. 54 sec. N.; Iong. 81 deg. 47 mim. 42 sec. N.

AEEA: 1.27 acres

	E C	CETHI	PEECIPI	TATICE	ARC FUNCE	P I & C E E	S)			CCSECCI	S, CHIO	WATERSE	EE 11)		
			Jan	P∈b	far	yEı	May	Jun	Jul	Ætg	5€₽	Oct	B C ♥	D€¢	Auuual
197	7	P Ç	0.96).J	0.76 J.)61	3.78 0.025	4.28 J.053	1.13	2.48	6.67 0.039	2-23 0-018	7.22 0.376	2.67 0.144	4.10 0.034	3.27 0.626	39.77 1.578
SIA	AV	P Q	2.56 0.224	2.18 0.233	3.31 0.334	3.33 0.128	3.53 0.101	3.87 0.304	4.20 0.266	2.66 U.J92		2.16 0.031	2.50 0.017	2.34 3.101	35.65 1.966
		ABBC	Eaxi	u e				Maximum	Volume f	or Selec	cted Time	Interva	1	INTERVALS	
			Discha Dat∈ F		1 Hour Cat∈ Vol			Dat∈		ate Vo		Vol-		ys 8 Vcl. Dat	e vol.
197	7		9-19 0	.536	9-19 0.1	65 12-14	0.261	12-14	0.429 12	-14 0.4	495 12-14	0.539	12-13	0.541 12-	7 0.541
							MAXIEUES	S FCE EE	FICE CE	EECCEC					
			7-26 4 1950		6- 1 2.2 1950	40 9- 1 195 0	3.160	9- 1 195 0		- 1 3.°	190 9 - 1 195 0		3- 3 1963	4.120 3- 196	1 5.050

Watershed Conditions: Pasture with cover of orchardgrass.

Maps: Topographic/Bydrologic - Bydrologic Cata for Experimental Agricultural Watersheds in the United States,
1956-55, USDA Misc. Pub. 545, p. 26.14-5. For geology description and arp see Bydrologic Cata for Experimental
Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.15-1 and 26.30-3.

Frecipitation: Fecords began Agril 1535. Cata from rain gage 1JJ.

Funoff: Fecords began Agril 1539. Measurements discontinued March 1570 to March 1974.

Long-Term Precipitation: National Weather Service records at Coshcotor, Chic.

1977	LA	ILY PEPCI	FITATION	(INCHES)			ССЕНС	CICE, CHI	C WATERS	BEC 110		
Гаў	Jan	F∈h	Mar	7 È I	t a y	Jur	Jul	Ang	S€ŗ	Cct	ăc ¥	Γ€C
1 2 3 4 5	0.0 1 0.0 0.075 0.0	0.0 1 0.0 1 0.0 2S 0.195	0.025 0.0 0.10 0.35E 0.2	0.0 1.73 0.0 0.52E 0.098	0.0 T 0.23 0.01 0.17 0.05	0.0 0.0 0.3 0.0 0.43	0.23 0.0 0.) 2.40 0.3 I	0.0 0.0 0.0 0.0	0.25 0.46 0.0 0.0	0.0 T 0.0 T 0.0	0.0 0.0 0.01E 0.0 T	0.0 T 0.04E 9.10E 0.0 1.12E
6 7 8 9	0.055 0.055 0.0 0.135 0.105	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.018 0.028 0.0 0.0 0.0	0.87 0.0 0.0 0.0	0.0 T 0.0 0.77 0.08 0.0	0.3 0.46 0.0 0.0 T	0.13 0.12 0.05 0.13 0.05	0.0 0.0 0.0 0.0 0.0	0.35 0.0 0.50 0.25 0.0	0.29 0.61 0.07 0.0 0.61	0.045 0.0 0.415 0.045 0.0
11 12 13 14 15	0.0 9.015 0.0 3.195	0.0 0.16 0.018 0.078 0.0 1	0.0 1.26 0.01E 0.3	0.0 0.0 0.0 0.10 0.3	0.0 0.0 0.0 0.0	0.15 0.0 0.0 0.08 0.08	0.17 0.12 0.0 0.3 0.3	0.18 0.07 0.0 0.47 2 0.48 2	0.0 0.08 1.82 0.32 0.15	0.0 T 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 1 0.0	0.0 0.0 2.09 1.01
16 17 18 19 20	0.0 0.0 0.025 0.015	0.0 0.0 0.0 0.0	0.0 0.18 0.77 0.0 0.23	0.0 0.0 T 0.0 T 0.0 T	0.0 0.0 0.0 0.0	0.0 0.01E 0.01E 0.0	1.10 0.01 0.2 0.0 0.0	0.0 0.0 0.0 0.0	0.92 0.0 T 0.31 1.76 0.0 T	0.08 0.0 0.03 0.07 0.0	0.54 0.0 0.0 0.0	0.0 0.0 0.02 0.01 0.24
21 22 23 24 25	0.015 0.015 0.0 0.075 0.165	0.0 0.0 0.0 0.0 0.33	0.3 0.328 0.0 0.3 0.0	0.0 0.11 0.41 0.19 0.16	0.0 0.0 0.2 0.0	0.0 0.0 0.0 0.0 0.17	1.28 0.7 0.0 0.3 0.3 I	0.27 0.0 0.0 0.02E 0.0	0.0 0.0 0.0 0.0 80.0	0.0 0.0 0.0 0.0	0.23 0.0 T 0.0 T 0.0	0.0 0.025 0.0 0.19 0.0 I
26 27 28 29 30 31	0.055 0.0 0.065 0.0 1 0.0 1	0.0 r 6.0 r c.0	0.0 0.0 0.50 0.0 0.04E	0.16 0.0 0.57 0.0	0 - 0 0 - 2 0 - 0 0 - 0 0 - 0	0.0 0.16 0.15 0.01 0.96	0.0 0.3 0.0 0.25 0.0	0.0 0.0 0.0 0.04 0.02	0.59 0.05 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.085 0.0 0.01 0.89	0.0 0.0 0.0 0.0
ICIAI SIA AV	0.96 2.56	0.78 2.18	3.78 3.31	4.2E 3.33	1.13 3.53	2.48 3.67	E.57 4.20	2.23 2.86	7.22 2.80	2.67 2.16	4.10 2.50	3.27

Air Temperature: See table for Watershed 121, p. 26.010-1.

Air Temperatine: See table for matershed 122, p. 20.010-1.
Gaging: Bain gage 107.
Station Amerages: 39 yr beginning 1939 (includes part-year records).
Botes: Code 'Z' indicates accurately measured total for a series has been equally divided among coded days. Code
'E' may reflect estimated storm duration rather than estimated rainfall amounts.

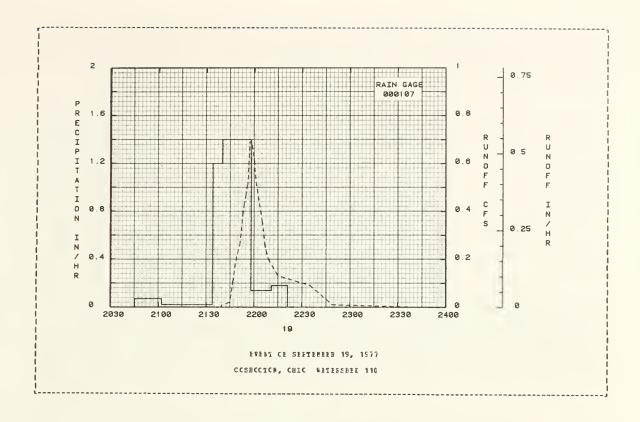
Cooperative Besearch Project of MRAM and Obio Agricultural Research and Development Center, Wooster, Obio

1 197	7	MEAR DAIL	Y TISCHAR	GE (CFS)			CCSEC	CICH, CH	IC WATER	SBEC 110		
Day	Jan	Feb	Bar	Apr	Bay	Jnn	Ju1	Aug	Sep	Cct	NCV	Le c
1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	3.0	0.0 I	0.00B	0.0	0.0
2	0.0	0.0	0.0	0.002	0.0	0.0	3. €	0.0	0.0	0.0	0.0	0.0
1 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 4	0.0	0.0	0.3	0.0 I	0.0	0.0	0.0		0.0	0.0	0.0	0.0
. 5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015
i 6	0.0	0.0	0.0	0.0	r 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
1 8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.3	0.091	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.9	0.0	0.3 I	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
1 14	บ. ป	0.0	0.0	0.0	0.9	0.0	0.0	0.0 I	0.9	0.0	0.0	0.029
1 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0 I
16	0.0	0.0	0.3	0.0	0.0	0.0	0.0 I	0.0	0.0 T	C.0	0.0	0.0
1 17	0.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.061	0.0
1B	0.0	0.0	r 0.0		0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
1 19	0.0	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
22	0.0	0.001	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0
1 23	0.9	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 24	9.0	0 - 90 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0
27	0.5	0.0	0.3	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 29	9.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
31	0.0		0.0		0.3		r 0.0	0.0		0.0		0.0
BEAR	0.0	0.0001	0.0	0.0001	3.0	0.0	0.0001	0.0	0.0007	0.0002	0.0001	0.0014
INCHES	0.0	0.061	0.025	0.053	0.031			0.018	0.378	0.144	0.034	0.826
VA AIS	U.224	0.233	9.334	0.128	0.101	0.304	0.266	0.092	0.135	0.031	0.017	0.101

Station Averages: 35 yr beginning 1935 (includes part-year records). Beasnrements discontinned Bar. 1970-Bar. 1974. Conversion Eactor: CES to IB/CAY, mnltiply by 18.7415.

1977	SELECTED BONG	OFE EVENT				CCSECCI	CB, CHIC	WATERSHE	E 110	
	ECERI CCRCI				BFALL			FONCE		
Eate Bo-Day	kairfall (irches)	Funcff (inches)			Intensity (in/hr)				Fate (cfs)	Acc. (inches)
			E	VENT CE SE	PIEBBEF 19	, 1977				
	FG 000107			BG 0001	107					
9-19	1.13	0.181	9-19	2045	0.0	0.0	S-15	2139	0.0	0.0
				2102	0.0706	0.02		2140	0.009	0.0001
				2134	0.0188	0.03		2145	0.320	0.0010
				2140	1.2000	0.15		2147	0.116	0.002B
				2158	1.4000	0.57		2149	0.209	0.0071
	D CCRCITIONS:	:								
	ith a cover			2211	0.1385	0.60		2151	0.265	0.0132
cf crchar	dgrass.			2221	0.1800	0.63		2153	0.400	0.0219
								2154	0.436	0.0273
								2155	0.479	0.0333
								2156	0.521	0.035B
								2157	0.686	0.0477
								2158	3.686	0.0566
								2159	0.661	0.0654
								2200	0.612	0.0726
								2201	0.521	0.0810
								2205	0.363	0.1040
								2207	0.250	0.1120
								2209	0.156	0.1178
								2215	0.128	0.1304
								2235	0.090	0.15EB
								2249	0.012	0.16B1
								2345	0.0	0.1725
								2400	0.0	0.1725

Conversion Factor: CPS to IN/HE, unltiply by 0.76090000.



26.015- 3

COEHCCION, CHIC WATERSHEE 121

LCCATION: Ocshocton Co., Chio; 1) mi. NE of Coshocton; Walhending River, Buskingum Fiver Easin. Iat. 40 deg. 21 min. 35 sec. N.; Iong. 61 deg. 48 min. 02 sec. N.

1.42 acres AREA:

ž (CNIHL	PRECIP	ITATICN	ARE FUNC	FF (INCEE	s)			CCSEOC	ICN, OBIC	WATERS	HEE 121		
		Jan	Peb	Mar	AFT	la y	Jun	Jul	Au 9	2et	Oct	Fc∀	Eec	Ancual
1977	P Ç	0.73 0.0	0.86 0.521	3.58 0.30€	4.21 0.118	1.06 0.001	2.25 0.000	5.39 0.003	2.28 0.00		2.73 0.002	3.90 0.15€	3.24 0.963	36.37 1.793
SIA AV	P Q	2.53	2.12	3.21 0.312	3.26 0.165	3.56 0.05€	3.90 0.193	4.29 0.196	2.68 0.10		2.1€ 0.017	2.46 0.015	2.29 0.076	35.50 1.700
	ANNO	IAL BAXI		CHARGE (i	n/hr) AND					nches) Fo			NIERVALS	
		Disch Dat∈	arge	1 Hour Eate Vo		Hcuis Vol.	6 Hc	urs	12 Fou Late V	IS	1 Day			tays ∈ Vol.
1977		12- 5	0.155	12-14 0.	121 12-14	0.198	12-14	0.382 1	2-13 0	.529 12-	3 0.616	12-13 0	.627 1 2-1	3 0.630
				•		EAXIEGE:	S FCF FI	FICE CE	FECCEE					
		8-23 1944	7.823	9- 1 1. 1950	320 9- 1 1950	1.390	9- 1 1950		9- 1 1 195 0	.390 9- 199		3- 3 °	1.660 3- 196	1 1. 670 3

Natershed Conditions: Meadow and pasture.

Matershed Conditions: Meadow and pasture.

Maps: Topographic/Hydrologic - Hydrologic Oata for Experimental Agricultural Matersheds in the United States, 1956-59, USEA Misc. Pub. 945, p. 26.20-5. Ecr geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USEA Misc. Pub. 1070, pp. 26.19-1 and 26.30-3.

Precipitation: Records began April 1935. Lata from rain gage 113.

Runoff: Records tegan April 1939. Measurements discontinued Barch 1970 to April 1972 and Nov. 1972 to April 1974.

Long-Term Precipitation: National Weather Service records at Coshoctor, Ohio.

1977	E A :	ILY PERCI	FITATICN	(INCHES)			CCSBC	CICK, CHI	C WATERS	BEC 121		
Lay	Jan	Peb	far	Arr	tay	Jar	Jul	Aug	Ser	Cct	\(\mathbb{V} \)	[ec
1 1 2 3 4 4 5	0.0 T 0.0 0.05s 0.0	0.0 I 0.0 I 0.05S 0.23S 0.0	0.028 0.0 0.09 0.36E 0.0	0.0 1.65 0.0 0.52E 0.09M	0.0 I 0.23 0.01E 0.15 0.05	0.0 0.0 0.0 0.36	0.21 0.0 0.0 2.43 0.0	0.0 0.0 0.0 0.0 0.0	0.15 0.50 0.0 0.0 0.56	1.44 0.0 I 0.0 0.0 0.0	0.0 0.0 0.01E 0.0 T 0.02E	0.0 T 0.05 I 0.17 I 0.0 I 1.05E
€ 7 8 9	0.058 0.059 0.0 0.068 0.098	9.9 0.0 0.3 9.7 0.3	0.0 r 6.0 c.0 0.0	0.015 0.028 0.0 0.0	0.62 0.0 0.0 0.0 0.0	0.0 0.0 0.73 0.0€ 0.0	0.0 0.41 0.0 0.0 I 0.0	0.17 0.13 0.04 0.16 0.03	0 - 0 0 - 0 0 - 0 0 - 0 0 - 10	0.34 0.0 0.49 0.24 0.0	0.28 0.57 0.08 0.0	0.06s 0.0 0.33s 0.05s
11 1 12 1 13 1 14 1 15	0.0 0.015 0.0 0.085 0.015	0.0 9.15 0.018 0.058 0.0 1	0.0 1.17 0.01E 0.0	0.0 0.9 0.0 0.10 0.0	0.0 0.0 0.0 0.0	0.15E 0.0 0.0 0.07 0.07	0.16 0.11 0.0 0.0 0.0	0.20 0.07 0.0 0.53 0.31	0.0 0.11 1.64 0.33 0.15	0.0 I 0.0 0.0 0.0 0.0	r 0.0 0.0 0.0 0.0 r 0.0	0.0 0.0 0.11 0.55 0.0
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.025 0.015	0.0 0.0 0.0 0.0 0.0	0.0 0.21 0.69 0.0 0.22	0.0 0.0 T 0.0 T 0.0 T 0.21	0.0 0.0 0.0 0.0	0.0 0.01E 0.01E 0.0	0.88 0.02 0.0 0.0 0.0	0.0 T 0.25 0.0 0.0	0.89 0.0 T 0.33 1.85 0.0 T	0.07 0.0 0.04 0.07 0.0	0.51 0.47 0.0 0.0 0.05E	0.0 0.0 0.05F 0.0 T
21 22 23 24 25	0.015Z 0.015Z 0.0 0.09S 0.07S	0.0 I 0.0 0.3 I 0.36 0.0	0.0 0.308 0.0 0.0	0.0 0.11 0.43 0.19 0.12	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.15	1.26 0.0 0.0 0.0 0.0	0.31 0.0 0.0 0.0 0.03	0.0 0.0 0.0 0.12 0.0 T	0.0 0.0 0.0 0.0	0.32 0.0 T 0.0 T 0.0 0.0	0.0 0.01S 0.0 0.17 0.0 T
2 € 1 27 1 28 1 29 1 30	0.105 0.0 0.025 0.0 1 0.0 1	0.0 r c.0 r 0.0	0.0 0.9 0.47 0.0 0.04E 0.9	0.18 9.0 0.57 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.12 0.13 0.01 0.43	0.0 0.0 0.0 0.26 0.0 0.56	0.0. 0.0 0.0 0.03E 0.02E	0.45 0.05 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 65 0.0 0.01 0.87	0.0 0.0 0.0 0.0 0.0
ICTAI STA AV	0.73 2.53	0.86 2.12	3.58 3.21	4.21 3.26	1.06 3.56	2.25 3.90	€.30 4.29	7.28 2.88	7.23 2.84	2.73 2.16	3.90 2.46	3.24 2.29

Cooperative Research Project of OSDA and Ohio Agricultural Research and Development Center, Wooster, Ohio

Air Temperature: See table for Watershed 123, p. 26.010-1.
Gaging: Rain gage 113.
Station Averages: 39 yr beginning 1939. Includes part-year records.
Notes: Code 'E' indicates an accnrately measured total for a series of days has been equally divided among coded
days. Code 'I' may reflect estimated storm duration rather than estimated rainfall amounts.

197	7	SEAN CALL	Y LISCHAR	GE (CFS)			CCSB	CCTC%, CB	IC WATER	SBEC 121		
Day	Ja'n	F∈b	Bar	ķķī	Łay	Jur	Jtl	Δug	S∈p	Cct	§ C ₹	Гєс
1	0.0	0.0	0.0	0.0	0.0	0.0	r C.C	0.0	0 - C	0.0 1	0.0	6.601
2	0.0	0.0	0.3	0.003 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3		9.6	0.0	0.0 1			3.0			C.0	0.0	0.0
4			0.0	0.002	0.0	0.0	0.0 1		0.0	0.0	0.0	0.0
=	0.0	0.0	0.3	0.001	0.0	0.0	0.0	0-0	u . 0	0 - 0	0.0	0.620
6	0.0			0.0	0.0 I		0.0	0-0	0.0	9.0	0.0	0.0
7	0.0			0.0 I	0.6	0.0	0.0 I		0.0	0.0	0.0	0.0
8	0.0		0.0	0.0 1	3.0	0.0		0.0	0.0	0.0	0.0	0.0
č	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0 - 0	0.0
10	0.0	0.0	0.3	0.0	0.3	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0
11	0.0	G.016	(• u	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
12	0.0	0.038	0.0 I		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0		J.J 1		0.0	C . U	0.0	0.0	0.0		0.0	0.004
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.033
15	0.0	0.0	0.2	0.0	0.0	0.0	0.0	C - C	0.0	0.0	0.0	C - O
16	0.0	0.0	0.0	0.0	0.6	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C.GC6	0.0
18	3.3	0.0	0.J T	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
19	C.O	0.0 1	0.0	0.3	0.0	0.0	0.0	0.0	0.0 1	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C - O
21	0.0	6.0	0.0	0.0	0.0	0.0	0.0 1		0.0	0.0	r 0.6	0.0
22	0.0		r 0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C - C	0.0
24	0.0	0 - 00 1	0.3	0.0	0.0	0.0	0.0	0.0	C.O	C . O	0.0	0.001
25	0.0	0.0	0.0	0.0	ŭ.O	0.0	3.0	0.0	Ŭ.O	0.0	0.0	0.0
26	0.0	9.C		0.0	0.0	0.0	0.0	0.0	C.O	0.0	0.0	0.0
27	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C.O	0.0
28	0.0	0.0	0.3	0.0 1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	C.0
29	0.0		C _ O	0.0	0.0	0.0	0-0	0.0	C _ O	0.0	0.0	0.0
30	0.7		0.0	0.0	0.0	C.3 T	0.7	0.0	0.0	0.0	0.003	0.0
Ξ1	0.0		0.0		0.0		0.0 1			0.0		0.0
AN			6.0	0.0052	0.0			0.0			0.0003	0.001
CEES				0.118	0.001			0.000		0.002	0.158	0.98
a av	0.242	0.249	0.312	3.165	0.058	0.193	0.196	9.107	0.069	0.017	0.015	0.07

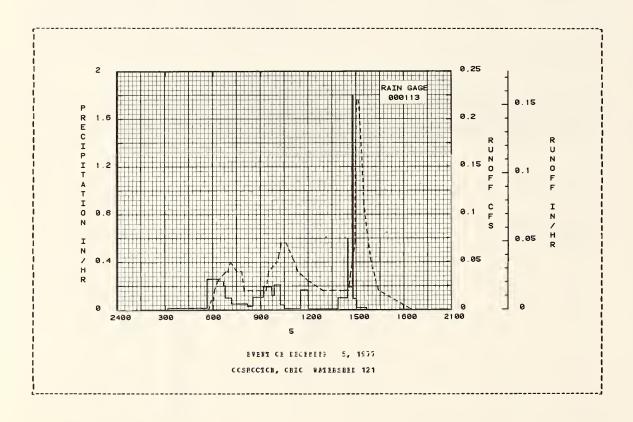
Etation Averages: 27 yr beginning 1935 (includes part-year records). Measurements discontinued March 1970 to April 1972 and Nov. 1972 to April 1974. Conversion Factor: CES to INJUAY, multiply by 16.7617.

	PLECIED BUBG							WATERSEE		
ARTECE	Fainfall	ICKS		BA:	INFALL			FUNCE	F	
[at∈	Fainfall	Funcff	Date	lime	Intensity	Acc.	[at∈	Tiu∈	Eat∈	Acc.
	(irches)									
			E.	VENT CF DI	CEMBEE 5	, 1977				
	FG 000113			BG 000						
12- 5	0.0	0.0	12- 5		0.0		12- 5		0.0	C _ O
				538	0.0162			537	0.002	0.0001
				545	0.2571	0.07		544	0.002	C-000E
				620	0.2572	0.22		553	0.006	0.0007
				630	0.2400	0.26		555	0.009	0.0005
ATESSED	CCBLITIONS:									
store an	wop29€ p			640	0.2400	0.30		602	0.012	0.0017
th a orc	wth cf			646	0.2000	(.32		605	0.020	0.0023
SCUE.				710	0.1000	0.36		617	0.030	0.0058
				€10	0.0500	0.41		646	0.035	0.0175
				830	0.0300	0.42		656	0.041	0.0211
				9 10	0.1050	0.45		705	0.046	0.0256
				941	0.1936	0.59		730	0.040	0.0250
						0.61				
				951	0.1200			748	0.035	0.0462
				1014	0.2087	0.65		758	0.025	0.0457
				1029	0.0400	0.70		830	0.020	0.0581
				1131	0.0097	0.71		9 10	0.020	0.0674
				1200	0.1655	0.79		920	0.025	C_0700
				1352	0.0054	0.80		930	6.041	0.0739
				1428	0.1000	0.86		1001	0.046	0.0656
				1430	0.5597	0.88		1004	0.053	0.0913
				1446	0.1675	0.53		1011	0.060	0.0959
				1449	1.7555	1.02		1018	0.074	C. 10 14
				1502	0.0923	1.04		1036	0.074	0.1169
				1540	0.0523	1.05		1108	0.046	0.1109
				1540	0.0138	1-95				
								1120	0.035	0.1449
								1200	0.030	0.1600
								1255	0.025	0.1776
								1330	0.020	0.1668
								1400	0.016	0.1931
								1418	0.016	0.1964

Conversion Factor: CFS to IN, FF, multiply by 0.69841000.

1977	S E	LECTEL BUNG	DEE EVENT				CCSECCI	CN, CHIC	WATERSBEI	121	
1	ANTECED	ENT CONDI	TICES		EAI	BFALL			RORCFI		
	îat∈ o-Day	Reinfall (irches)	Runcff inches)	Date Bo-Cay		Intersity (in/hr)		Eat∈ Bc-Eay	Time of Day	Fate (cfs)	Acc. (inches)
				EVENT	CE CECEBEE	Б E, 197	7 (CCN11)	(DEC)			
									****		* ****
								12- 5	1420 1432	0.020	0.1969 0.2000
									1436	0.025	0.2000
									1440	0.030	0.2013
									1446	0.053	0.2023
									1440	0.023	0.2002
									1456	0.0€7	0.2132
									1500	0.196	0.2193
									1504	0.222	0.2290
									1510	0.322	0.2445
									1522	0.160	0.2712
									1530	0.10€	0-2637
									1542	0.082	0.2970
									1557	0.053	9305.0
									1625	0.020	0.3207
									1830	0.0	0.3352

Conversion Factor: CFS to IN/8E, multiply by 0.69641000.



26.019- 3

ICCATICB: Coshocton Co., Chio; 19 mi. ME of Coshocton; Tuscarawas biver, Muskingum Fiver Fasin. Tat. 40 deg. 21 min. 42 sec. B.; Long. 81 deg. 47 min. 56 sec. 6.

ABFA: 1.56 acres

ž C	BIBLE	PRECIP	ITATICE	AND FUNCI	E INCEE	s)			COSECCICI	, CBIC	WATERSH	EC 106		
		Jan	P∈b	ear.	ytı	lay	Jun	Ju1	Łυς	S€F	Cct	Kc♥	Dec	Arrual
1977	P Ç	0.73	0.86 1.003	3.56 0.218	4.21 0.117	1.96 0.010	2.25 0.000	6.30 0.076	2.28	7.23 0.107	2.73 0.055	3.90 0.043	3.24 0.443	36.27 2.073
STA AV	P Ç	2.54 0.227	2.12 0.283	3.22 0.115	3.27 0.123	3.56 0.102	3.91 0.253	4.30 C.273	2.89 0.171	2.64 0.136	2.17 0.017	2.47 0.032	2.30 0.083	35.60 1.815
	ANNO	AL PAXI		BAFGF (it	1/br) AND				CFF (incl				BTEEVALS	
		Date	arge	1 Hour Cat∈ ¥o		Rcurs Vol.	€ Ec	urs	12 Ecurs	1	Day Vol.			Eays ∈ Vol.
1977		7- 4	0.168	2-22 0.0	93 2-22	0.177	2-22	0.377 2	-22 0.41	1 2-22	0.507	2-22 0	.645 2-1	9 0.650
						HAXIPUHS	FCE FF	FICE CE	FECCEE					
		8-23 1964	7.630	9- 1 1.2 1950	260 9 - 1 1950	1.380	9- 1 195 0		1-23 1.41 960	0 2-23 1962		2-23 2. 1962	.000 2-1 196	9 2.440

Watershed Conditions: Meadow and pasture with a cover of fescue.

Maps: Topographic/Bydrologic - Bydrologic Uata for Experimental Agricultural Watersheds in the United States, 195659, USUA Misc. Pub. 945, p. 26.20-5. For geology description and map, see Bydrologic Data for Experimental
Agricultural Watersheds in the United States, 1962 USTA Pisc. Fub. 1070, pp. 26.20-1 and 26.30-3.

Precipitation: Records began April 1959. Data from rain gage 113.

Runoff: Records began April 1959. Measurements discontinued Kov. 1572 to April 1974.

Long-Term Frecipitation: Mational Weather Service records at Coshoctor, Chic.

1977	DA	ILY PRECI	FITATICE	(INCHES)			CCEBC	CICE, CHI	C WATERS	BEC 106		
Lay	Jan	F∈b	Ear	λŗr	tay	Jut	Jul	109	S∈ŗ	Cct	Y C A	[ec
1 1 2 2 3 4 4 5 5	0.0 1 0.0 0.055 0.0	0.0 T 0.0 T 0.05S 0.23S 0.0	0.02S 0.0 0.39 0.36B 0.0	0.0 1.65 0.0 0.52E 0.09M	0.0 T 0.23 0.01E 0.15 0.05	0.0 0.0 0.0 0.0 0.3	0.21 0.0 0.0 2.45 0.0 1	0.0 0.0 0.0 0.0 0.0	0.15 0.50 0.0 0.0 0.56	1.44 0.0 I 0.0 0.0	0.0 0.0 0.01E 0.0 T	0.0 T 0.05 0.17 0.0 1.05E
6 1 7 1 8 1 9	0.058 0.058 0.0 0.068 0.098	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.01S 0.02E 0.0 0.0 0.0	0.62 0.0 0.0 0.0	0.0 0.0 0.73 0.06 0.0	0.0 0.41 0.0 0.0 T	0.17 0.13 0.04 0.16 0.03	0.0 0.0 0.0 0.0 0.10	0.34 0.0 0.45 0.24 0.0	0.28 0.57 0.08 0.0	0.065 0.0 0.335 0.055
1 1 11 1 12 1 13 1 14 1 15	0.0 0.015 0.0 0.065 0.015	0.0 9.16 0.018 0.058	0.0 1.17 0.31E 0.0	0.0 9.0 0.0 0.10	0.0 0.0 0.0 0.0	0.15E 0.0 0.0 0.07 0.07	0.16 0.11 0.0 0.0	0.20 0.07 0.0 0.53 0.31	0.0 0.11 1.64 0.33 0.15	0.0 T 0.0 0.0 0.0	0.0 0.0 0.0 0.0 1	0.0 0.0 0.11 0.55
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.025 0.015	0.0 0.0 0.0 0.0	0.0 0.21 0.69 0.0 0.22	0.0 0.0 T 0.0 T 0.0 T 0.21	0.0 0.0 0.0 0.0	0.0 0.01E 0.01E 0.0	0.68 0.02 0.0 0.0	0.0 T 0.25 0.0 0.0	0.89 0.0 1 0.33 1.65 0.0 1	0.07 0.0 0.04 0.07	0.51 0.47 0.6 0.0 0.05E	0.0 0.0 0.05E 0.0 T
21 22 22 23 24 25	0.0152 0.0152 0.0 0.095 0.075	0.0 0.0 0.0 0.0 0.36	0.0 0.30 M 0.0 0.0	0.0 0.11 0.43 0.19 0.12	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.15	1.26 0.0 0.0 0.0 0.0	0.31 0.0 0.0 0.0 0.03	0.0 0.0 0.0 0.12 0.0 1	0.0 0.0 0.0 0.0	0.32 0.0 1 0.0 1 0.0	0.0 0.015 0.0 0.17 0.17
2 6 2 7 1 2 8 2 9 1 3 0 1 3 1	0.105 0.0 0.025 0.0 7 0.0 7	0.0 r 0.0 r 0.0	0.0 0.0 0.47 0.0 0.04R	0.18 0.0 0.57 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.12 0.13 0.01 0.43	0.0 0.0 0.0 0.26 0.0	0.0 0.0 0.0 0.03E 0.02E	0.45 0.05 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.06s 0.0 0.01 0.87	0.0 0.0 0.0 0.0 0.0
ICIAI SIA AV	0.73 2.54	0.8£ 2.12	3.58 3.22	4.21 3.27	1.06 3.58	2.25 3.91	6.30 4.30	2.28	7.23 2.84	2.73 2.17	3.90 2.47	3.24 2.30

Air Temperature: See table for Watershed 123, p. 26.010-1.
Gaging: Bain gace 113.
Station Averages: 39 yr beginning 1935 |includes part-year records).
Botes: Codes 'E' may reflect estimated storm duration rather than estimated rainfall amount. Code 'Z' indicates that an accuretely measured total for a series of days has been equally divided among coded days.

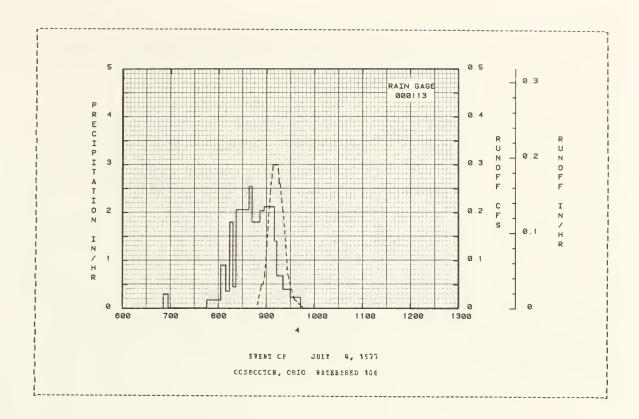
Cooperative Research Project of USOA and Obio Agricultural Sesearch and Development Center, Wooster, Obio

127	7	BEAN DAIL	R IISCHAR	GE (CFS)			CCSEC	CICE, CB	C PATER:	SBFC 106		
Day	Jan	F∈b	Bar	Apr	May	Jnn	Jnl	Aug	Sep	Cct	Nev	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0
2	0.0	0.0	0.0	0.00€	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.001	0.092	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0 I	0.0	0.0	0.008
6	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ç	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0 T	0.0	0.0
10	0-0	0 . C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.006	0.436	0.0	0.0	0.0	0.0	U-0	0.0	0.0	0.0	0.0
13	0.0	0.004	0.031	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.001
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.6 T	0.0	0.0	0.019
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	I 0.0
16	0.3	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0 I	0.0
17	9.0	9.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
16	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	9.0	0.0 1	0.0	0.0	0.6	9.0	0.0	0.0	0.007	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	0.0	0.0	I 0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0
22	0.0	0.027	0.0 1	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
23	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	r 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		C. 0	0.0	0.0	0.0	0.0	0.0	0.ú	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0-0 T	0.0	6.0	0.0	0.0	0.002	0.0
31	0.0		0.0	3.0	0.0	3.0 1	0.0	0.0		0.0	3.002	0.0
BEAN	6.0	6.0023	0.0005	E000.0	0.0	0.0	0.0002	0.0	0.0002	0.0001	0.0001	0.0009
INCHES	0.0	1.003	0.218	0.117	0.016	0.000	0.076	0.000	6.107	0.055	.0.043	0.443
SIA AV	0.227	0.283	0.115	0.123	0.102	0.253	0.273	0.171	0.136	0.017	0.032	0.083

Ctation Averages: 38 yr beginning 1935 (includes part-year records). Beasnrements discontinned Nov. 1972-April 1974. Conversion Factor: CFS to IB/CAY, multiply by 15.2575.

ANTECEDENT CONDI				INFALL			FUNCE		
	Funcff	Date		Intensity	Acc	rate		r Rat∈	Acc.
Bo-Day (inches)									
		F,	VENT CE	JULY 4	. 1977				
EG 060113			RG 000		•				
7-4 0.07	0.0	7- "	651	0.0	0.0	7- 4	814	0.0	0.0
7- 4 0.07	0.0	7- 4	657	0.3000		/- 4	818	0.0	0.0
			746	0.0122	0.02		838	0.0	0.0
			803	0.1765	0.69		841	0.002	0.0000
			809	0.9000	0.03		848	0.002	0.0001
ATERSHED CONCITIONS:			cus	0.5050	0.16		040	0.0	0.0001
sture and meadow			£14	0.3600	0.21		854	0.046	0.0016
th a cover cf			818	1.8000	0.33		856	0.046	0.0025
SCRE.			822	0.4500	0.36		856	0.067	0.0037
			638	2.0625	0.91		901	0.126	0.0070
			842	2.5500	1.06		903	0.196	0.0105
			847	1.8000	1.23		905	0.250	0.0153
			652	1.6000	1.36		907	0.260	0.0209
			857	2.0400	1.55		908	0.256	0.0239
			5 10	2.1231	2.01		909	0.296	0.0271
			913	1.4000	2.06		911	0.296	0.0333
			921	0.6750	2.17		912	0.296	0.0365
			930	0.4000	2.23		9 14	0.296	0.0427
			943	0.2308	2.28		915	0.280	0.0456
							916	0.265	0.0467
							917	0.265	0.0515
							919	0.222	0.0567
							921	0.196	0.0611
							927	0.074	0.0697
							935	0.020	0.073€
							947	0.002	0.0750

Conversion Factor: CPS to IN,85, multiply by 0.63573000.



CCSHCCICN, CHIC WATERSHED 196

IOCATION: Ocshocton Co., Chio; 10 mi. NF of Coshocton; Tuscaravas River, Buskingum Fiver Fasin. Lat. 40 deg. 21 min. 36 sec. N.; Iong. 61 deg. 47 min. 67 sec. N.

303.30 acres

нc	NTEL	PFECIF	ITATICN	ANI BUR	OFF (INCEES)			CCS	FCCTCN,	CHIO	WATERSH	EC 196			
		Jan	P∈b	tar.	Ap	r	ľa y	Jun	Jul	ì	09	S€F	0ct	Ncv	£∈c	;	Aroual
1977	P Q	1.15 0.166	0.87 1.662	3.89 3.129	3.		1.36 0.805	2.35 0.146	6.58 0.39			7.02 1.213	2.84 1.475	4.34 1.73			40.41 19.177
SIA AV	P Q	2.€5 1.7€0	2.36 1.969	3.54 2.653	3.4		3.68 1.432	4.11 0.931	4.31 0.86			2.64 0.299	2.27 0.258	2.58 0.51			37.13 14.452
	ANN	DAL BEXI		CHARGE	(in/hr)	AND	-								INTER	PALS	
		∄exi Disch Dat∈	arge	1 Hou Date V				6 B	Volume curs Vol.	12		1	Interva Day Vol.	2 D	ays Vcl.		tays Vcl.
1977		10 - 1	0.250	12-14	. 220	12-14	0.391	12-14	0.807	12-14	1.054	12-14	1.361	12-13	1.€31	12-13	2.332
						5	AXISUS	FCR P	EFIOD C	E FEC	CED						
		6-12 1957	3.720	6-12 1 1957	1.31J	6-12 1957	1.446	7- 5 1989	2.106	7- 5 1969	2.453	1-21 1959	2. 92 0	1-20 1959	3.210	3- 4 1564	4.630

Ratershed Conditious (approximate percentages): Woods, 27%; grassland, 50%; miscellaneous, 4%; cultivated, 15%; watershed in improved practice.
Maps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Put. 545, p. 26.30-5. Por geology description and map, see Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Fub. 1070, pp. 26.30-1 and 26.30-3.
Precipitation: Fecords began May 1537. Data from rain gage 106.
Eumoff: Records tegan May 1937.
Long-leim Frecipitation: Wational Weather Service records at Coshoctou, Chic.

1977	£ A	ILY PERCI	FITATION	(INCHES)	CCSHCCICN, CHIC WATERSHEE 196							
Lay.	Jan	P∈b	Bar	Agr	Bay	Jur	Jol	Aug	S∈p	Cct	Nc v	£€c
1 2 1 3 1 4 1 5	0.0 1 0.0 0.075 0.0	0.0 1 0.0 1 0.055 0.235 0.0	0.025 0.0 0.09 0.36E 0.0	0.0 1.73 0.0 0.51E 0.068	0.0 1 0.23 0.01E 0.17 0.05	0.0 0.0 0.0 0.0 0.44	0.22 0.9 0.0 2.43 0.0 T	0.0 0.0 0.0 0.0 0.0	0.4€ 0.40 0.0 0.0 0.27	1.54 0.0 1 0.0 0.0	0.0 0.0 0.01E 0.0 1 0.02E	0.0 1 0.05 0.19 0.0 1.15
	0.058 0.068 0.0 0.178 0.188	0.0 0.0 0.0 0.0 0.0	0.0 1 0.0 0.0 0.0	0.015 0.02t 0.0 0.0 0.0	0.60 0.0 0.0 0.0	0.0 1 0.0 0.76 0.09 0.0	0.0 0.48 0.0 0.0 1	0.16 0.11 0.08 0.16 0.03	0.0 0.0 0.0 0.0	0.32 0.0 0.55 0.24 0.0	0.29 0.71 0.06 0.0 0.57	0.025 0.0 0.625 0.055 0.0
1 11 1 12 1 13 1 14 1 15	0.0 0.015 0.0 0.255 0.015	0.0 0.15 6.018 0.125 0.0 1	0.3 1.29 0.01E 0.3 0.0	0.0 0.0 0.0 0.12	0.0 0.0 0.0 0.0	0.15E 0.0 0.0 0.07 0.07	0.11 0.12 0.0 0.0	0.20 0.07 0.0 0.64 0.32	0.0 0.08 1.55 0.35 0.12	0.0 T 0.0 0.0 0.0 0.0	r 0.0 0.0 0.0 r 0.0 r 0.0	0.0 0.0 0.06 1.05
1 18 1 17 1 18 1 15 1 20	0.0 0.0 0.015 0.025 0.0	0.0 0.0 9.0 0.0	0.0 0.23 0.80 0.0 0.24	0.0 1 0.0 1 0.0 1E 0.0 1	0.0 0.0 0.0 0.0	0.0 0.01E 0.01E 0.0	1.14 0.01 0.0 0.0 0.0	0.0 T 0.22 0.0 0.0	0.90 0.0 1 0.27 1.92 0.0 T	0.07 0.0 0.02 0.07 0.0	0.56 0.51 0.0 0.0 0.05E	0-0 0.0 0.0EF 0.0 1 0.22
21 22 23 24 25	0.025Z 0.015Z 0.0 0.115 0.075	0.0 T 0.0 J.0 T 0.31	0.0 0.318 0.0 0.0 0.0	0.3 0.19 0.44 0.19 0.15	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0 0.17	1.29 0.0 0.0 0.0 0.0	0.30 0.0 0.0 0.03 0.03	0.0 0.0 0.0 0.0 0.09	0.0 0.0 0.0 0.0	0.33 0.0 1 0.0 7 0.0	0.0 0.035 0.0 0.15 0.0 1
26 27 28 29 30	0.105 7.0 0.015 0.0 1 0.0 7	0.0 r 6.0 r 0.0	0.0 0.0 0.50 0.0 0.04E 0.0	0.15 0.0 0.59 0.0	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.11 0.13 0.01 0.40	0.0 0.0 0.0 0.25 0.0	0.0 0.0 0.0 0.03E 0.03E	0.49 0.06 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.135 0.0 0.04 0.96	0.0 0.0 0.0 0.0 0.0
101AI S1A AV	1.15 2.85	0.87 2.36	3.89 3.54	4.24 3.42	1.08 2.68	2.35 4.11	6.58 4.31	2.38 2.91	7.02 2.84	2.64 2.27	4.34 2.58	3.69 2.45

Air Temperature: See table for Matershed 125, p. 26.010-1.
Gaging: Baiu gaçe 108.
Station Averages: 41 yr beginning 1937 (part-year records included).
Botes: Codes 'I' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates
botes: Codes 'I' may reflect estimated storm duration rather than estimated rainfall amoung coded days.

Cooperative Research Freject of OSDA and Chio Agricultural Research and Development Center. Wcoster, Ohic

1977 BEAN DAJIY LISCHARGE (CFS)							CCSECCICE, CHIC WATERSHIE 196							
Day	Jan	F∈b	Bar	Apr	Bay	Jur	Jtl	Aug	Ser	Cct	ВСV	[ec		
1	0.054	0.042	0.725	0.610	0.548	0.062	0.117	0.090	0.086	6.035	0.110	3.089		
2	0.952	0.042	0.582	11.272	0.613	0.05B	0.041	0.046	0.144	1.068	0.110	1.605		
3	0.050	0.042	0.515	3.270		0.056	0.036	0.040	0.057	0.778	0.106	1.497		
Q	0.048	0.042	1.408	4.694	0.546	0.058	2.120	0.039	0.033	0.613	0.102	1.193		
5	0.046	0.042	0.857	3.591	0.497	0.081	5.120	0.037	0.104	0.451	0.102	12.523		
6	0.044	0.042	0.706	2.068	1-411	0.195	0.066	0.043	0.053	0.642	0.104	3.181		
7	0.042	0.042	0.600	1.655	0.923	0.062	0.132	0.056	0.036	0.394	0.655	1.742		
8	0.042	0.042	0.531	1.337	0.661	0.158	0.107	0.045	0.031	1.028	0.434	1.464		
S	0.092	0.042	0.489	1.055	0.562	0.195	0.073	0.039	0.029	1.266	0.263	1.207		
10	0.042	0.044	0.452	0.900	0.593	9.06B	0.066	0.051	0.032	0.746	1.109	0.875		
11	0.042	9.374	0.417	0.763	0.440	0.070	0.060	0.036	0.026	0.644	0.549	0.729		
12	0.092	0.159	3.792	0.627	0.383	0.071	0.056	0.053	0.025	0.548	0.406	0.661		
13	0.042	0.378	3.485	0.531	0.339	0.062	0.054	0.036	0.540	0.477	0.348	1.339		
14	0.042	0.459	1.406	0.535	0.289	0.062	0.050	0.145	0.694	0.429	0.327	17.292		
15	0.042	0.258	1.055	0.466	0.243	0.052	0.344	0.178	0.079	0.383	0.30B	3.467		
16	0.042	0.216	0.855	0.417	0-211	800.0	0.384	0.057	0.932	0.371	0.574	2.084		
17	0.042	0.189	0.7B1	0.383	0.189	0.046	0.107	0.050	0.252	0.316	3.596	1.620		
18	0.342	0.176	6.193	0.346	0.170	0.045	0.056	0.039	0.215	0.289	1.084	1.326		
19	0.042	0.174	1.697	0.31B	0.153	0.044	0.048	0.033	5.934	0.267	0.800	1.060		
20	0.042	0.168	1.558	0.305	0.138	0.043	0.042	0.033	1.757	0.243	0.712	1.365		
21	0.042	0.153	1.367	0.280	0.123	0.039	3.456	0.046	Q. B0 €	0-211	1.082	0.955		
22	0.042	1.175	1.864	0.275	0.114	0.039	0.131	0.056	0.627	0.169	0.767	0.763		
23	0.042	3.675	1.205	0.514	0.10€	0.039	0.056	0.037	0.470	0.176	0.712	0.703		
24	0.042	6.175	0.950	0.393	0.098	0.039	0.050	0.642	0.389	0.164	0.644	0.721		
25	0.042	5.235	0.844	0.606	0.091	0.043	0.050	0.034	0.329	0.158	0.620	0.725		
26	0.042	1.807	0.760	0.486	0.065	0.039	0.050	0.030	0.659	0.156	0.558	0.531		
27	0.042	1.364	0.678	0.429	0.079	0.039	0.048	0.030	0.327	0.153	0.477	0.477		
28	0.092	0.905	1.193	1.354	0.073	0.053	0.044	0.030	0.270	0.143	0.440	0.440		
29	0.042		0.943	0.873	0.06B	0.043	0.054	0.030	0.251	0.133	0.429	0.417		
30	0.042		0.760	0.661	0.066	0.043	0.055	0.030	0.235	0.123	4.493	0.394		
31	0.042		0.695		0.066		0.156	0.030		0.114		0.371		
BEAB	0.0434	0.7558	1.2848	1.2672	0.3321	0.0621	0.1611	0.0511	0.5145	0.6056	0.7353	2.1219		
INCEFS	0.106	1.662	3.129	3.222	0.809	0.146	0.352	0.124	1.213	1.475	1.733	5.167		
STA AV	1.760	1.969	2.853	2.358	1.432	0.931	0.662	0.273	0.299	0.256	0.513	1.145		

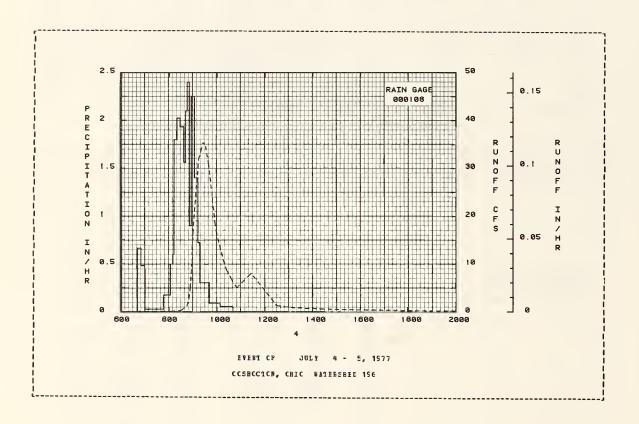
Station Averages: 41 yr begirning 1937 (part-year records included). Conversion Factor: CPS to IN/DAY, multiply by 0.0786.

ABTECEDEBT CONDITI			BUNCFF						
	Buncff		Time				Time	Eate	Acc. (inches)
		FVF	N1 OF	3011 4 -	5, 1977				
EG 000108			BG 000						
7- 4 0.0	0.001	7- 4	640	0 - 0	0 - 0	7- 9		0.036	0.0
			649	0.6667			730	0.046	C-0001
			€59	0.4600	0.18		750	0.054	0.0002
			746	0.0255	0.20		B15	0.118	0.0003
			603	0.1765	0.25		830	0.316	0.0005
ATFESSED CCELLIIONS:									
ods, 27%; grassland,			809	0.5000	0.30		845	1.260	0.0011
)%; cultivated, 19%;			812	0.6000	0.33		850	2.860	0.0017
iscellaneous, 4%. Wat			B19	1.8000	0.54		853	5.020	0.0023
ed in improved practi	c∈.		827	2.0250	0.61		857	10.200	0.0040
			836	1.9333	1.10		900	17.300	0.0062
			841	1.5600	1.23		906	23.400	0.0125
			845	2.1000	1.37		9 14	31.900	0.0249
			651	2.4000	1.61		922	34.400	0.0394
			B55	0.9000	1.67		925	35.300	0.0451
			903	2.2500	1.97		930	35.300	0.0547
			912	1.4000	2.16		940	30.200	0.0726
			9 17	0.7201	2.24		9 5 5	16.700	0.0926
			541	0.3000	2.36		1000	16.000	0.0974
			1008	0.0889	2-40		1016	10.B00	0.1091
			1040	0.0563	2.43		1024	6.780	0.1133
							1040	6.160	0.1196
							1050	5.020	0.1229
							1103	6.160	0.1269
							1126	€.000	0.1357
							1230	1.260	0.1515
							1315	0.831	0.1545
							1430	0.559	0.1573
							1630	0.360	0.1603
							1800	0.261	0.161B
							2130	0.162	0.1694

Conversion Factor: CFS to IM/BB, multiply by 0.00327310.

1977	SELECTED BUNG	FF EVERT			CCSECCICE, CHIC WATERSHEE 196					
AKTFCEEBH CCBEITICNS Date Bainfall Funcff Date Bo-Day (inches) (inches) Bo-Day			Dat∈ ≣o-Eay	FAINFALL Time Intersity of Cay (in/br)		Acc.	Acc. Date (inches) Bc-Day		F Fate (cfs)	Acc. (inches)
			EVENT CF	JULY	4 - 5,	1977 (CC	MIINOEC)			
							7- 4 7- 5	2400 130 630 1600 2400	0.158 0.148 0.138 0.102 0.055	0.1658 0.1665 0.1689 0.1726 0.1752

Conversion Factor: CFS to IN/BF, multiply by 0.00327310.



26.030- 3

LCCATION: Coshocton Co., Chio; 13 mi. NE of Coshocton; Tuscaravas Biver, Muskingnm Biver Easin. Lat. 40 deg. 21 min. 50 sec. N.; Iong. 81 deg. 47 min. 32 sec. N.

52.80 acres

ĕC	BTEL	PRECIE:	ITATICE	ARE FURC	EE INCE	.S)			CCSECCT	CR, CHIO	WATEESP	EC 174		
		Jan	F∈b	Mar	y ř i	ža y	Jan	Jnl	≜u9	Sep	Cct	g c A	D∈c	Arrual
1977	P C	0.56 0.0	0.78 1.337	3.78 1.381	4.28 1.469	1.13	2.48	6.67	2.23	7.22	2.87	4.10	3.27	39.77
VA AF	P C	2.3¢ 1.042	2.18 1.331	3.58 2.J61	3.36 1.641	3.15 0.636	3.11 0.268	3.94 0.412				2.70 0.345	2.58 0.641	34.84 6.552
	ABRO	AL BAXII		CBABGE i			aximum	Tclose	fcr Sele	cted Time	Interva	1	ibiebvals	
		Dat∈ I								1. [at				t∈ Vol.
1977		4-2 (0.109	4- 2 0.	098 4- 2	0.166	4- 2	0.352	4-20.	577 4- 3	0.704	4- 2	0.790 4-	2 1.267
						BARIFOES	FCE FF	FICE CE	FECCED					
		7- £ 1	1.085	4-25 J. 1961	820 4-25 1961		7- 5 1969		7- 5 2. 1969	154 7- 5 1969		3- 5 1964	2.540 3- 19	4 E.710

Watershed Conditions (approximate percentages): Cover of 15% bardwoods, 2% reforested, 67% grassland, 16% miscellaneons, watershed in improved practice.

Haps: Topographic/Bydrologic - Hydrologic Lata for Experimental Agricultural Watersheds in the United States, 1960-61, USIA Risc. Fut. 994, p. 26, 30-4. Etc geology description and war, see Hydrologic Lata for Experimental Agricultural Watersheds in the United States, 1960-89; use Hydrologic Lata for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Eut. 1070, pp. 26, 38-1 and 26, 30-2.

Precipitation: Fecords began June 1960. Station discortinued May 1977 to July 1979.

Long-Term Precipitation: Wational Weather Service records at Cosbocton, Chic.

1977	ΕA	ILY PRECI		ATTORTOL			CC 5 5 C	CICN, CHI				
Lay	Jan	P∈b	far	Apr	Нау	Jan	Je1	λug	Sep	Cct	Bc∀	Σ€C
1 2 2 1 2 1 4 5	0.0 0.075 0.0 0.0	0.0 T 0.0 T 0.02S 0.19S 0.0	0.02S 0.0 0.10 0.35E 0.0	0.0 1.73 0.0 0.52E 0.09S	0.0 T 0.23 0.01 0.17 0.05	0.0 0.0 0.0 0.6 0.43	0.23 0.0 0.0 2.40 0.0 I	0.0 0.0 0.0 0.0 0.0	0.25 0.46 0.0 0.0	1.59 0.0 T 0.0 0.0	0.0 0.0 0.01E 0.0 T	0.0 T 0.04F 0.10F 0.0 1.12F
6 7 8 9	0.055 0.055 0.0 0.105 0.105	0.0 0.9 0.0 0.0	0.0 0.3 0.0 0.0	0.018 0.028 0.0 0.0 0.0	0.67 0.0 0.0 0.0	0.0 T 0.0 0.77 0.08	0.0 0.46 0.0 0.0 T	0.13 0.12 0.05 0.13 0.05	0.0 0.0 0.0 0.0	0.35 0.0 0.50 0.25 0.0	0.29 0.61 0.07 0.6 0.61	0.045 0.0 0.415 0.045 0.0
1 11 1 12 1 13 1 14 1 15	0.0 0.015 0.0 0.195 0.0	0.0 0.16 0.018 0.075 0.07	0.0 1.26 0.012 0.0	0.0 0.0 0.0 0.10	0.0 0.0 0.0 0.0	0.15 0.0 0.0 0.08 0.0	0.17 0.12 0.0 0.0	0.18 0.07 0.0 0.47 2 0.48 2	0.0 0.06 1.82 0.32 0.15	0.0 T 0.0 0.0 0.0 0.0	r 0.0 0.0 0.0 0.0 r 0.0	0.0 0.09 1.01
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.025 0.015 0.0	0.0 0.0 0.0 0.0	3.0 0.18 0.77 0.3 0.23	0.0 0.0 T 0.01E 0.0 T 0.20	0.0 0.0 0.0 0.0	0.01E 0.01E 0.0 0.0	1.10 0.01 0.0 0.0 0.0	0.0 T 0.20 0.0 0.0	0.92 0.0 T 0.31 1.76 0.0 T	0.06 0.0 0.03 0.07	0.51 0.54 0.0 0.0	0.0 0.0 0.02 0.01 0.24
1 21 1 22 1 23 1 24 1 25	0.015 0.015 0.0 0.075 0.165	0.0 1 0.0 6.0 1 0.33	0.0 0.328 0.0 0.0 0.0	0.0 0.11 0.41 0.19 0.16	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.17	1.28 0.0 0.0 0.0 0.0	0.27 0.0 0.0 0.02F 0.0	0.0 0.0 0.06 0.06	0.0 0.0 0.0 0.0	0.0 1 0.0 1 0.0 0.0	0.0 0.025 0.0 0.14 0.0 %
1 29 1 30 1 31	0.055 0.0 0.065 0.0 T 0.0 T	0.0 I 0.0 I C.0	0.0 0.50 0.0 0.0 0.04E	0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.16 0.15 0.01 0.46	0.0 0.0 0.0 0.25 0.0	0-0 0-0 0-0 0-04 0-02 0-0	0.59 0.05 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.085 0.0 0.01 0.65	0.0 0.0 0.0 0.0 0.0
TCTAL STA AV	0.56 2.30	0.78 2.18	2.78 3.58	4.28 3.36	1.13 3.15		6.67	2.23 2.91	7.22 2.95	2.67 2.07	4.10 2.70	2.27 2.58

Air Temperatures: See table for Natershed 123, p. 26.010-1.
Gaging: Rain gage 107.
Station Averages: 18 yr begirning 1960 (includes part-year records).
Motes: Codes 'F' may reflect estimated storm duration rather than estimated rainfall amonnts.
Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

Cooperative Besearch Project of USDA and Obic Agricultural Research and Development Center, Wooster, Chio

197	7	MEAN DAII	Y CISCHAR	E (CFE)			CCSEC	CICN, CHI	C WATERS	BEC 174		
Day	Jan	F∈b	Ear	AFI	Bay	Jun	Jul	Aug	Sep	Cct	Now	E∈c
1	0.0	U.0	0.019	0.019	0.015	N F	NF	B F	N E	K E	B.B.	BF
2	0.0	0.0	0.017	1.476	0.019	NF	NF	K F	NR	NE	X.E	N.E.
3	0.0	0.0	0.023	0.241	0.013	NE	NE	N E	NE	N E	BF	nn
4	0.0	0.0	0.170	0.490	0.016	PF	NF	K E	NB	NF	NE	N.E.
5	1.0	0.3	0.049	0.277	0.013	NE	NE	NE	NB	KE	NF	NE
5	0.0	0.0	0.032	0.134	0.163	N E	N E	K B	NE	KF	N E	NE
7	0.0	0.0	0.020	0.069	0.046	NF	BE	K E	NE	K F	N F	S.E.
8	0.0	0.0	0.316	0.059	0.022	NF	NB	% F	P E	N E	% F	NE
9	0.0	0.0	0.017	0.039	0.015	ВF	NE	NE	NR	N.E.	NF	B F
10	0.0	0.0	0.015	0.030	0.013	NE	NE	% F	K B	K F	NF	NB
11	0.0	0.001	0.013	0.024	0.011	N S	NF	5.5	B B	K E	NF	NE
12	0.0	0.038	0.60€	0.019	0.008	NF	NE	BF	BB	N.E.	K F	N E
13	0.2	0.128	0.338	0-015	0.007	NE	NE	% F	NE	B E	NE	NB
14	0.0	0.045	0.086	0.015	0.007	K F	BF	B F	PB	K F	KE	NE
15	0.0	0.010	0.044	0.011	0.007	NE	NF	B B	NE	KE	NE	NE
16	0.0	0.006	0.027	0.010	0.006	NE	NE	% E	BF	NR	B E	NE
17	0.0	0.002	0.022	0.008	0.004	KE	NE	K E	NE	K E	K F	K F
18	0.0	0.002	0.679	0.007	0.002	NE	BF	N E	BB	B F	B B	NE
19	0.0	0.003	0.107	0.00€	r 6.0	K F	NE	N F	NB	N E	K F	N.E.
20	0.0	0.004	0.141	0.00€	NB	NK	NE	KF	NE	KE	DE	NE
21	0.9	9.002	0.063	0.00€	ne	NE	NE	B B	NR	PE	NF	NE
22	0.0	0.275	0.152	0.005	B 5	B B	BF	K E	NR	KB	K F	8 E
23	0.3	0.621	0.362	0.024	NE	NE	PE	KK	NB	BF	NF	BB
24	0.0	0.756	0.047	0.011	K E	NF	PE	BE	NB	B E	PF	N.B.
25	0.9	0.235	0.036	0.033	NB	PE	n e	KK	NE	% F	R E	NE
26	0.0	0.084	0.930	0.31€	NB	NE	NE	B B	NB	NE	BE	NB
27	0.0	0.063	0.024	0.011	K E	NF	B B	K E	NE	N.E.	NE	N E
28	0.0	0.026	0.196	0.112	NB	KF	NE	K E	NE	NE	NE	NE
29	0.0		0.054	0.042	B E	NF	BF	BE	NB	B E	K F	B.E.
30	0.0		0.033	0.022	NB	NE	NE	NE	NE	BF	B F	NB
31	0.0		0.024		8 F		NE	NE		NE		N.E.
BFAN	0.0	0.0822	C.0989	0.1087								
INCRES	0.6	1.037	1.381	1.465								
STA AV	1.042	1.331	2.061	1.441	0.636	0.268	0.412	0.115	0.149	0.112	0.345	0.64

Staticn Averages: 18 yr beginning 1960 (includes part-year records). Staticr discontinued Bay 1977 to July 1979.
Conversion Factor: CPS to IN/IAY, multiply by 0.45079.

LCCATICN: Coshecton Co., Ohio 10 mi. NF of Coshocton; Inscarawas Biver, Muskingum Biver Pasin. Lat. 40 deg. 21 min. 47 sec. B.; Iong. 61 deg. 47 min. 23 sec. N.

187.00 acres

EC.	RIHIR	PRECIP	ITATICA	ARE FURCE	F (INCHE	S)			CCSECCICN	, CHIO	BEHIAW	EE 154		
		Jan	P∈b	žar.	ΆŗΓ	ea y	Jup	Jnl	lng	S€Ę	Cct	% ⊂ ♥	Σ€C	Arrnal
1977	P Q	0.96	0.78 1.226	3.7B 2.046	4.28 2.119	1. 13	2.48	6.67	2.23	7. 22	2.87	4.10	3.27	39.77
VA AFE	P Q	2.32 1.447	2.23 1.795	3.45 2.859	3.26 2.141	3.13 1.239	3.11 0.52€	3.94 0.571	2.91 0.174	2.95 0.238	2.07 U.22B	2.70 0.519	2.58 0.961	34.66 12.699
	ABBO	AL MAXII		CHARGE (in			axiene	 Vclnm∈ f	or Select	cd Time	Interva	1		:
		Uischa Uat∈ I		1 Honr Cat∈ Vol		Honrs Vol.			12 Ecnis at∈ Vol.		Day Vol.			8 Days t∈ Vol.
1977		3-12 (0.066	4-2 0.0	76 3-12	0.139	4- 2	0.292 4	- 2 0.50	4 4- 2	0.660	4-2 0	.604 4-	2 1.515
						PARIPUPS	FCF FF	FICE CF	FFCCFC					
		7- 5 (1965	959	4-25 0.6 1961	80 4-25 1961		7- 5 1969		- 5 1. 97	9 7 - 5 1969		3- 9 2 1964		4 3.690 64

Vatershed Conditions [approximate percentages]: Cover of 21% hardwoods, 2% reforested, 58% grassland, 11% cultivated, 8% miscellaneons, watershed in improved practice.

Hags: Topographic/Hydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the Onited States, 1960-61, OSDA Misc. Ph. 994, p. 26.30-4. For geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Phb. 1070, pp. 26.39-1 and 26.30-3.

Precipitation: Fecords began Jan. 1960. Data from rain gage 107.

Ennoff: Eccords began Jan. 1960. Beasnrements discontinued May 1977 to Mov. 1979.

Long-Term Precipitation: Wational Weather Service records at Cosbocton, Chio.

1977	DA	ILY PRECI	FITATICE	(IKCHES)			CCSPC	CICE, CHI	C WATERS	BFC 194		
Lay	Jan	P∈b	Har	YEL	Bay	Jnn	Jnl	Aug	Set	Cct	NCV	E€C
1 2 5 4 5	0.0 T 0.0 0.07S 0.0	0.0 T 0.0 T 0.02S C.19S 0.0	0.02S 0.0 0.10 0.35B 0.0	0.0 1.73 0.0 0.52E 0.09E	0.0 1 0.23 0.01 9.17 0.05	0.0 0.0 0.0 0.0 0.0	0.23 0.0 0.0 2.40 0.0 I	0.0 0.0 0.0 0.0	0.25 3.46 0.0 J.0 0.38	1.59 0.0 T 0.0 0.0	0.0 0.0 0.01F 0.0 T	0.0 T 0.04E 0.10E 0.0 1.12E
6 7 8 9	0.058 0.058 0.0 0.108 0.108	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.01S 0.02H 0.0 0.0 0.0	0.67 0.0 0.0 0.0 0.0	0.0 0.77 0.08 0.0	0.0 0.46 0.0 0.0 T	0.13 0.12 0.05 0.13 0.05	0.0 0.0 0.0 0.0 0.0	0.35 0.0 0.50 0.25 0.0	0.29 0.61 0.07 0.0 0.61	0.045 0.0 0.415 0.045 0.0
11 12 13 14 15	0.0 0.015 0.0 0.198 0.0 1	0.0 0.16 0.018 0.078 0.0 T	0.9 1.26 0.01B 0.0	0.0 0.0 0.0 0.10	0.0 0.0 0.0 0.0	0.15 0.0 0.0 0.0 0.08	0.17 0.12 0.0 0.0	0.18 0.07 0.0 0.47 Z 0.48 Z	0.0 0.08 1.82 0.32 0.15	0.0 T 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 1	0.0 0.0 0.09 1.01 0.0
16 17 18 19 20	0.0 0.0 0.025 0.015	0.0 0.0 0.0 0.0 6.0	0.0 0.1B 0.77 0.0 0.23	0.0 0.0 T 0.0 T 0.0 T 0.20	0.0 0.0 0.0 0.0	0.0 0.01E 0.01E 0.0	1.10 0.01 0.0 0.0 0.0	0.0 0.20 0.0 0.0	0.92 0.0 1 0.31 1.76 0.0 1	0.06 0.0 0.03 0.07	0.51 0.54 0.0 0.0	0.0 0.0 0.02 0.01 0.24
21 22 23 24 25	0.018 0.018 0.0 0.078 0.168	0.0 1 0.0 T 0.33	0.0 0.328 0.0 0.0	0.0 0.11 0.41 0.19 0.16	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.17	1.28 0.0 0.0 0.0 0.0	0.27 0.0 0.0 0.02F 0.0	0.0 0.0 0.0 90.0	0.0 0.0 0.0 0.0	0.33 0.0 1 0.0 1 0.0	0.025 0.025 0.0 0.14 0.0 1
26 27 28 29 30 31	0.058 0.0 0.068 0.0 1 0.0 1	0.0 r 0.0 r 0.0	0.0 0.50 0.0 0.04E 0.0	0.16 0.0 0.57 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.16 0.15 0.01 0.46	0.0 0.0 0.3 0.25 0.J 0.65	0.0 0.0 0.0 0.04 0.02	0.59 0.05 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0HS 0.0 0.01 0.89	0.0 0.0 0.0 0.0 0.0
TC1AI STA AV	0.96 2.32	0.78 2.23	3.78 3.45	4.28 3.26	1.13 3.13	2.48 3.11	6.67 3.94	2.23 2.91	7.22 2.95	2. £7 2.07	4.10 2.70	1.27 2.58

Air Temperature: See table for Watershed 123, p. 26.010-1.
Gaging: Bain gage 107.
Station Averages: 18 yr beginning 1960.
Botes: Codes "2" may reflect estimated storm duration rather than estimated rainfall amounte. Code "2" indicates
that an accurately meaenred total for a series of days has been equally divided among coded daye.

Cooperative Research Project of USUA and Ohic Agricultural Research and Development Center, Wooster, Chio

197	7	MEAN DAIL	r fischard	E (CES)			CCENC	CICB, CBI	C WATERS	BEC 194		
Day	Jan	P∈b	Bar	Apr	May	Jun	Jul	Aug	Sep	Cct	Nev	£€¢
1	0.010	0.010	0.236	0.243	0.188	ВБ	ББ	BF	NE	B B	14	BE
2	0.010	0.010	0.176	4.800	0.217	N F	H F	BE	HB	KE	ьь	B E
3	0.010	0.008	0.188	1.342	0.176	NF	NF	КБ	NE	NF	NE	NB
4	0.010	0.006	0.615	1.865	0.200	E F	B F	B E	BB	B E	B F	K B
5	0.010	0.0)6	0.341	1.418	0.206	N E	P P	B B	NR	B F	H E	NE
I I 6	0.908	0.006	0.258	0.850	0.685	NE	HF	NE	BE	N.F	NB	83
7	0.006	3.0)6	0.215	0.645	0.390	R F	8 F	N E	NA	N S	ББ	B E
ε .	0.006	0.006	0.188	0.529	0.274	NF	N E	B E	NE	ББ	NF	NB
9	0.006	0.006	0.188	0.418	0.229	B B	E F	% F	BB	F E	n s	R E
10	0.006	0-007	0.176	0.341	0.215	NE	N F	B F	BE	n e	1 I	NB
1 11	0.006	0.018	0.152	0.265	9-201	N F	NE	ьь	NR	N is	BF	n n
12	0.006	0.066	1.679	0.258	0.164	N F	BF	NF	NB	BB	NB	BF
13	9.006	0 - 265	1.552	0.229	0-141	NE	B F	ББ	NE	B B	NE	NB
14	0.004	0.152	0.488	0.231	0.131	N F	ИБ	ББ	ВБ	B E	ББ	BE
15	0.002	0.070	0.439	0.201	0.112	BF	NE	ББ	n b	ББ	N B	BB
l 1 16	0.002	0.052	0.326	0.176	0.103	NB	NB	ьь	ВБ	N B	ВБ	NB
17	0.002	0.042	0.289	0-169	0.094	N F	N F	B B	BB	NE	NF	B F
18	0.002	0.037	2.305	0.164	0.079	NB	BB	ББ	NE	B E	BE	BB
19	0.002	0 - 04 1	0.710	0.152	0.065	ББ	BF	NB	BE	K E	BF	ББ
20	0.002	0.042	0.757	0.149	0.052	BE	NB	N F	BB	K F	N F	NF
l 1 21	0.002	0.037	0.532	0.191	3.047	нь	NE	N E	N E	ВБ	ББ	BR
22	0.002	1.517	0.792	0.141	0.047	K B	N B	NF	H H	нь	NE	B B
23	0.004	1.756	0.489	0.150	0.047	ьь	N.F.	ьь	ВБ	NE	NE	ВБ
29	0.006	2.821	0.378	0.134	0.047	ВБ	нь	BB	NE	B B	B F	BF
25	0.006	1. 29 4	0.322	0.220	0.0 I	N B	NF	BB	N E	ББ	N F	N E
l 1 26	0.008	0.661	0.289	0.175	NR	NF	NE	ьь	BE	вБ	ИБ	NR
27	0.013	0.480	0-258	0.152	K B	B F	B E	B B	NE	N.B.	B B	B 5
28	0.010	0.298	0.532	0.494	n E	n b	BF	B.B.	N E	ВБ	N.F.	N.B.
29	0.010	55270	0.398	0.306	B B	B F	BF	B B	n n	B B	BF	B B
30	0.010		0.307	0.215	B B	N E	N.E.	N.B	n n	ВБ	N.E.	NE
31	0.010		0.258	3.213	B.B.	4.0	H F	FF	u u	NR	P D	R B
 BEAN	0.0063	0.3439	C.5166	0.5550								
INCHES	0.025	1.226	2.346	2.115								
STA AV	1.447	1.795	2.859	2-141	1.239	0-526	0.571	0-179	0.238	0.226	0.519	0.961

Conversion Factor: CFS to IB/DAY, multiply by 0.12728.

LOCATION: Cosbocton Co., Obio; 10 mi WE of Cosbocton, Inscarawas Biver, Walbonnding Biver, Muskingom Biver Easin. Lat. 40 deg. 21 min. 36 sec. N.; Iong. 61 deg. 46 min. 55 sec. W.

69.60 acres

	RTHI	PRECIP	ITATICE	AND FUNCE	E (INCEE	S)		С	CSECCION,	CHIC	WATERSE	EC 162		
		Jan	₽eb	Ear	ytı	tay	Jnn	Jul	L ug	5 € F	Oct	PCA	D€C	èroual
1977	P C	1.32	0.85 1.055	1.66 2.305	4.25 2.206	1.03 0.558	2.55 0.043	6.53 0.345		7.44 1.395	2.67 1.156	4.38 1.338	3.92 3.441	41.2E 13.905
SIA AV	P Ç	2.49 1.354	2.17 1.615	3.68 2.415	3.59 1.767	3.36 1.057	2.96 0.230	4.39 0.716		3.22 0.436	2.32 0.290	2.51 0.435	2.54 1.158	37.11 11.662
	ANDO	PE SEXI	aua DISC	EABGE (io	/DI) AND	DAXIDU	a Actour	C UF BUNC	rr (1DCbe	S) PCR	SEILCIL	T TIEF I	BILDVALS	
		ăexi:		1 8000				Clowe fo	r Selecte	d Time	Interva	 1		Fasc
		đexi Disch Date	arge	1 Hcur Date Vol			€ Bc	Clove fo		d Time	Interva	1 2 Eay	s 6	Cays
1977		Disch	arge Fate	Dat∈ Vol	. Date	Wol.	€ Bc	velore for 1	r Selecte 2 Bonrs te Vol.	d Time 1 Cate	Interva Day Vol.	l 2 Eay Eate V	s 6	€ Vol.
1977		Disch Date	arge Fate	Dat∈ Vol	Date	Vol. 0.391	6 Bc	velore for 1	r Selecte 2 Bobrs te Vol.	d Time 1 Cate	Interva Day Vol.	l 2 Eay Eate V	s €	€ Vol.

Natershed Conditions (approximate percentages): Cover of 37 hardwoods, 9% pastured woodlard, 5% reforested, 45% grassland, 34% cultivated, prevailing practice except for 10% of area which was strip cropped.

Maps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pnb. 1226, p. 26.40-2. For geology description, see p. 26.40-1 of foregoing reference.

Frecipitation: Fecords began January 1864. Data from rain gage 11%.

Sunoff: Records began January 1864. Beasnrements discontinued Dec. 21, 1870 to May 1974.

Long-Term Frecipitation: Mational Weather Service records at Coshooton, Chic.

Botes: Gage for watershed 182 is 400 ft. upstream from that of Watershed 183, see Mydrologic Data for Experimental Agricultural Watersheds in the United States, 1863, USDA Misc. Pub. 1164 and earlier publications of this series.

1977	D à	ILY PEECI	FITATION	(1BCBES)			CCSBC	CICE, CHI	C WATERS	BEC 182		
Lay	Jan	F∈b	Mar	yer	tay	Jer	Jol	Aug	S∈ŗ	Cct	ßc∀	Ľ€C
1 1 2 1 3 1 4 1 5	0.0 T 0.0 0.10 S 0.0	0.0 T 0.0 T 0.04S 0.23S 0.0	0.025 0.0 0.05 0.35E 0.0	0.0 1.67 0.0 0.53E 0.098	0.0 T 0.23 0.01 0.18 0.04	0.0 0.0 0.0 0.3 0.46	0.18 0.0 0.0 2.49 0.3 1	0.0 0.0 0.0 0.0	0.62 0.49 0.0 0.0	1.56 0.0 T 0.0 0.0	0.0 0.0 0.01E 0.0 T 0.J2E	0.0 T 0.06 0.22 0.0 1.26
	0.058 0.078 0.0 0.308 0.188	0.0 0.0 0.0 0.0	J.3 0.3 T 0.3 0.3	0.015 0.028 0.0 0.0 0.0	0.57 0.0 0.0 0.0	0.0 T 0.0 0.85 0.66 0.0	0.0 0.40 0.0 0.0 1	0.17 0.17 0.02 0.15 0.03	0.0 0.0 0.0 0.0 0.0	0.35 0.0 0.54 0.21	0.31 0.71 0.10 0.0 0.55	0.035 0.0 0.585 0.105
11 12 13 13 14 15	0.0 0.015 0.0 0.255 0.015	0.0 0.17 0.018 0.10S 0.0 1	0.0 1.25 0.01E 0.3 0.0	0.0 0.0 0.0 0.10	0.0 0.0 0.0 0.0	0.17E 0.0 0.0 0.09 0.09	0.13 0.13 0.0 0.0	0.22 0.09 0.0 0.51 0.33	0.0 0.11 1.46 0.37 0.10	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 1	0.0 0.0 0.13 1.06 0.0
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.015 0.015	0.0 0.0 0.0 0.0 0.0	0.0 0.23 0.87 0.0 0.23	0.0 0.0 T 0.0 T 0.0 T 0.13	0.0 0.0 0.0 0.0	0.0 0.01E 0.01E 0.0	0.94 0.02 0.0 0.0	0.0 T 0.21 0.0 0.0	0.94 0.0 T 0.29 2.10 0.0 T	0.07 0.0 0.03 0.07 0.0	0.52 0.44 0.0 0.0 0.04E	0.0 0.0 0.06 0.07 0.24
21 22 23 24 1 25	0.015Z 0.015Z 0.0 0.105 0.055	T 0.0 0.0 T 0.0 0.0 0.0	0.0 0.298 0.0 0.0	0.0 0.09 0.50 0.20 0.13	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.19	1.52 0.0 0.0 0.0 0.0	0.23 0.0 0.0 0.0 0.04 0.04	0.0 0.0 0.0 0.13 0.0 T	0.0 0.0 0.0 0.0	0.35 0.0 T 0.0 T 0.0 0.13	0.0 0.025 0.0 0.14 0.0 S
26 27 28 29 30 31	0.095 0.0 0.065 0.0 T 0.0 T	0.0 0.0 I 0.0 I	0.0 0.50 0.50 0.04E	0.17 0.0 0.64 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.09 0.21 0.01 0.40	0.0 0.0 0.25 0.0 0.47	0.0 0.0 0.0 0.03E 0.03E	0.37 0.06 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.16S 0.0 0.02 1.02	0.0 0.0 0.0 0.0 0.0
TOTAL STA AV	1.32 2.49	0.85 2.17	3.88 3.68	4.25 3.55	1.03 3.36	2.55 2.96	6.53 4.35	2.27 2.59	7.44 3.32	2.87	4.38	3.92 2.54

Air Temperature: See table for Watershed 123, p. 26.010-1.

Air Temperature: See table for watershed 12:, p. 20.00001.

Saging: Bain gage 119.
Station Averages: 14 yr beginning 1964.

Notes: Code 'P' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates that an accurately measured total for a series of days has been equally divided among coded days.

Cooperative Research Project of USDA and Chio Agricultural Besearch and Development Center, Scotter, Chic

197	7	MEAN DAIL	Y DISCHAF	GE (CFS)			CCSEC	стсв, сы	C SATER	SEEC 182		
Day	Jan	F∈b	Bar	Apr	řa y	Jur	Jul	Aug	S∈p	Cct	BCA	Lec
1	0.902	0.002	0.105	0.099	0.078	0.004	0.009	0.004	0.010	1.593	0.019	0.424
2	0.302	0.0)2	0.088	1.617	0.089	0.003	0.0	0.002	0.012	0.110	0.015	0.217
3	9.002	0.002	0.084	0.544	0.078	0.003	0.0	9-002	0.001	0.08E	0.011	0.223
4	0.002	0.002	0.245	9.716	0.085	0.003	0.613	0.001	0.0	0.073	0.013	0.167
5	0.002	0.9U2	0.133	0.521	0.077	0.069	0.002	J.0 1	0.004	0.059	0.010	2.073
6	0.002	0.002	0.099	0.297	0.286	0.009	0.002	0.002	0.001	0.101	0.011	0.365
7	0.002	0.002	0.094	0.235	0.157	0.005	0.011	0.009	0.0	0.055	0.242	0.207
8	2.002	0.302	0.9BE	0.196	0.11)	0.023	0.005	0.006	0.0	0.210	0.064	0.155
ç	0.002	0.002	0-078	0.163	0.099	0.015	0.002	0.007	0.0	0.241	0.036	0.131
10	0.002	0.004	0.068	0.139	0.083	0.004	0.002	0.005	0.001	0.105	0.257	0.105
11	0.002	0.016	0.364	J. 11B	0.073	0.004	0.001	0.002	0.0	0.08E	0.080	0.088
12	0.002	0.046	0.645	0.099	0.064	0.004	0.001	3.002	0.0	0.07B	0.050	0.0E3
13	0.002	0.185	0.676	0.088	0.050	0.063	0.0 1	0.001	0.152	0.064	0.042	0.331
14	0.002	0.068	0.243	0.091	0.042	0.003	0.0	0.022	0.195	0.055	0.039	3.106
15	0.002	0.059	0.1B8	0.976	0.036	0.002	0.0	0.036	0.014	0.050	0.036	0.477
16	0.002	0.050	0.147	0.068	0.530	0.002	0.081	0.012	0.274	0.042	0.113	0.287
17	0.002	0.042	0.130	0.059	0.027	0.002	0.008	0.009	0.047	0.036	0.723	0.214
18	0.002	U. 039	1.076	0.055	0.027	0.002	0.001	0.001	0.047	0.030	0.134	0.176
19	0.002	0.043	0.289	0.050	0.024	0.002	0.001	0.0 1	2.297	0.034	0.099	0.147
20	0.002	0.042	0.332	0.046	0.019	0.002	0.001	0.0	0.294	0.030	880.0	0.222
21	0.002	0.936	0.223	0.042	0.015	0.002	0.201	0.005	0.126	0.027	0.191	0.139
22	0.002	0.353	0.323	0.039	0.013	0.002	0.024	0.001	0.089	0.024	0.103	0.105
23	0.302	0.545	0.156	0.100	0.911	0.002	0.005	0.0	0.064	0.021	0.088	0.057
24	0.002	0.737	0.171	0.070	0.010	0.002	0.003	0.0 1	0.058	0.021	0.083	0.101
25	0.002	0.30 B	0.147	0.115	0.010	0.003	0.003	0.0	0.055	0.021	0.089	0.120
26	J.002	0.192	0.123	0.082	300.0	0.002	0.002	0.0	0.17E	0.021	0.075	0.064
27	0.002	0.163	0.110	0.368	0.037	0.002	0.002	0.0	0.052	0.021	0.064	0.050
26	0.002	0.131	0.241	0.225	0.006	0.002	0.002	2.0	0.042	0.021	D-059	0.046
29	0.002	0 - 13 1	0.167	0.132	0.005	0.001	3.004	0.0	0.036	0.021	0.055	0.046
30	0.002		0.107	0.054	0.005	0.003	0.004	0.0	0.030	0.021	1.024	0.046
31	0.002		0.110	0.034	0.005	0.003	0.014	0.0	0.030	0.021	1.024	0.046
EAN	0.0020	0.1101	0.2174	0.2150	0.0526	0.0042	0.0325	0.0043	0.1360	0.1092	0.1304	0.3246
INCHES	0.021	1.055	2.305	2.206	0.032e	0.042	0.345	0.045	1.395	1.158	1.33E	3.441
TA AV	1.394	1.615	2.415	1.787	1.057	0.230	0.716	0.109	0.436	0.290	0.435	1.156

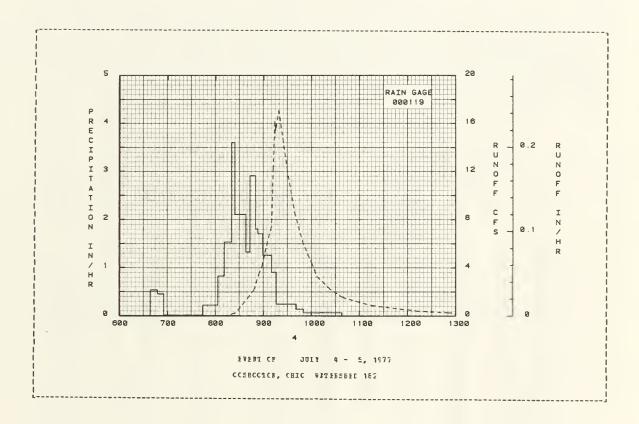
Station Averages: 11 yr beginning 1564 [includes fart-year records]. Peasurements discontinued Dec. 1570-Bay 1974. Conversion Factor: CFS to IN/CAY, multiply by 0.34158.

977 SELECT	ED HUNC	PF EVENT				CCSECCI	CN, CHIC	WATERSBEE	182	
ABTECECPKT					INFALL			BUNCFF		
Pate Fai Bc-Day ∤ir	nfall ches)	Funcff (inches)			Intersity (in/br)				Fat∈ (cfs)	Acc. (inches)
			EVE	NI CF	JULY 4 -	5, 1977				
FG 00	0119			FG 000	119					
	0.0	0-0	7- 4	838	0.0	0.0	7- 4	645	0.0	0.0
				697	0.5333	0.08		650	0.0	0.0
				655	0.4500	0.14		740	0.0	0.0
				744	0.0122	0.15		805	0.005	0.0000
				803	0.2211	0.22		E15	0.027	0.0000
WATERSHEE CCBE										
over of 3%, ba				B11	0.8250	0.33		8 25	0.252	0.0004
astored woodla				B20	1.5333	0.56		8 40	1.440	0.0034
forested: 49%,				824	3.8000	0.80		B4B	2.160	0.0068
4%, coltivated	miscel	-		838	2.1000	1.29		B54	3.450	0.0108
lanecus.				E # 3	1.3200	1.40		858	4.110	0-0144
				850	2.5143	1.74		905	6.210	0.0230
				853	1.8000	1.83		9 10	7.460	0.0311
				859	1.7001	2.00		912	12.200	0.035B
				9 10	1.2545	2.23		914	16.200	0.0425
				916	0.9000	2.32		915	15.400	0.0463
				941	0.2400	2.42		919	17.100	0.0617
				950	0.1333	2.44		930	11.900	0.0996
				1010	0.0600	2.46		939	€.570	0.1215
				1038	0.0643	2.45		95 0	5.930	0.1404
								1002	4.110	0.1547
								1007	3.250	0.1591
								1024	2.160	0.1760
								1038	1.560	0.1762
								1043	1.940	0.1780
								1115	0.B58	0.1867
								1215	0.368	0.1954
								1255	0.252	0.1584
								1545	0.105	0.2056
								1905	0.027	0.2067
								2400	0.003	0.2097

Conversion Factor: CFS 1C IN/BF, multiply by 0.01424900.

1977 SEL	ECTEL BUBO	EF EVENT				CCSECC	ICB, CEIO	WATESE	EC 182	
Date	NI CCNDIT Bainfall itches)	ICBS Funcff (inches)	Dat∈ ∄o-Day	lime	WFALL Intensity (in/br)	>cc. (inches)	£at∈ Fc-Day	EUBCI lise of Lay	Fate (cfs)	Acc. (inches)
			FVERT CF	JOLY	4 - 5,	1977 (CC)	7- 5			

Conversion Factor: CFS TC IF, BE, multiply by 0.01424900.



26.040- 3

LCCATION: Coshocton County, Chio; 10 miles NE of Coshocton; Malhonding Biver, Muskingua River Basin. Iat. 40 deg. 21 min. 26 sec. N.; Iong. 61 deg. 47 min. 57 sec. N.

ABEA: 79.20 acres

BC	NTBL	PFECIP	ITATICN	AND FUR	CFF IKCB	ES)			cc:	SHCCIC	B , OH	IG 9A	FESFED	166		
		Jan	F€b	₽ar	Apr	Bay	Jun	Jnl	Acg	S	€Ē	Oct	yc.A.	D€¢	٤ .	Arrual
1977	E Q	0.9E 0.036	1.04	2.57 2.114	4.33 1.955	1.17 0.537	2.34 0.056	6.76 0.314	2.2°		.76 .999	2.74 1.341	3.95 1.36			38.86 13.3 0 4
VA AF	P Q	2.55 0.556	2.24 1.393	3.37 1.865	3.32 1.261	3.68 0.902	3.76 0.221	4.29 1.012	2.5 0.1		. 83 . 177	2.09 0.254	2.46 0.37			95.90 9.660
		Maxi Ciscb	5D8	1 Bou	in/hr) & B r 2		Baximum	Volume		lected	line		 al	ays		 Cays
		Date	Fate	Cat∈ V	ol. Dat	€ Vol.	Date	Vol.	Date	Vol.	Cate	Vol.	Cate	Vol.	Date	Vol.
1977		10- 1	0.135	10- 1 0	.110 10-	1 0.165	12-14	0.260 1	2-14	0.363	12-13	0.510	12-13	0.706	11-30	1.330
						SUNIFOR	S PCF P	EFICE OF	FECCE	C						
		7-27		7-50	-539 7-		7- 5			_					_	

1977	CA	ILY PHECI	FITATICE	(IRCHES)			cc	SECCICB,	CBIC WA	TERSEED 1	€6	
Cay	Jan	P∈b	E ar	yŁī	May	Jnc	Jnl	Ang	Sep	Cct	Ko4	Lec
1 1 2 1 3 4 5	0.0 T 0.0 0.08S 0.0	0.0 I 0.0 I 0.04S 0.35S 0.3	0.03S 0.0 0.09 0.32E 0.0	0.0 1.70 0.0 0.56E 0.10E	0.0 T 0.27 0.01E 0.15 0.04	0.0 0.0 0.0 0.0 0.46	0.18 0.0 0.0 2.40 0.0 T	0.0 0.0 0.0 0.0	0.13 0.41 0.0 0.0 0.33	1.56 0.0 T 0.0 0.0	0.0 0.0 0.01F 0.0 T 0.02F	0.0 T 0.04 0.09 0.0 1.01
6 7 8 9	0.05S 0.05S 0.0 0.08S 0.16S	0.0 0.0 0.0 0.0	0.0 0.0 T 0.0 0.0	0.01S 0.02B 0.0 0.0 0.0	0.70 0.0 0.0 0.0	0.0 T 0.0 0.71 0.08 0.0	0.0 36.0 0.0 1 0.0	0.13 0.08 0.08 0.14 0.03	0.0 0.0 0.0 0.0	0.32 0.0 0.40 0.25 0.0	0.27 0.59 0.08 0.0 0.58	0.045 0.0 0.235 0.035 0.0
11 12 13 14 15	0.015 0.015 0.0 0.195 0.015	0.0 0.15 0.018 0.138 0.7 T	0.0 1.17 0.01E 0.0 0.0	0.0 0.0 0.0 0.10	0.0 0.0 0.0 0.0	0.18E 0.0 0.0 0.06 0.06	0.20 0.15 0.0 0.0	0.15 0.07 0.0 0.70 0.35	9.0 0.10 1.85 0.36 0.19	0.0 T 0.0 0.0 0.0 0.0	T 0.0 0.0 0.0 0.0 T 0.0	0.0 0.0 0.07 1.00
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.025 0.015 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.18 0.77 0.0 0.20	0.0 1 0.0 1 0.01F 0.0 1	0.0 0.0 0.0 0.0	0.0 0.01E 0.01E 0.0	1.25 0.02 0.0 0.0	0.0 T 0.21 0.0 0.0	0.83 0.0 T 0.25 1.57	0.08 0.0 0.03 0.07	0.53 0.53 0.0 0.0 0.05E	0.0 0.0 0.05 0.0 1 0.15
21 22 23 24 25	0.0152 0.0152 0.0 0.115 0.085	0.0 0.0 1 0.0 0.36	0.0 0.298 0.0 0.0 0.0	0.0 0.10 0.49 0.20 0.12	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.11E	1.27 0.0 0.0 0.0	0.24 0.0 0.0 0.02F	0.0 0.0 0.0 0.17 0.0 T	0.0 0.0 0.0 0.0	0.32 0.0 1 0.0 1 0.0 0.06	0.0 0.045 0.0 0.14 0.0 1
26 1 27 1 28 1 29 1 36 4 31	0.055 0.0 0.065 0.0 T 0.0 T	0.0 F 0.0 F 6.0	0.0 0.0 0.47 0.0 0.048	0.16 0.0 0.56 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.15 0.10 0.01 0.46	0.0 0.0 0.0 0.25 0.0 0.66	0.0 0.0 0.0 0.05 0.04 0.0	0.46 0.05 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.075 0.0 0.02 0.62	0.0 0.0 0.0 0.0 0.0
TOTAL STA AV	0.98 2.55	1.04	3.57 3.37	4.33 3.32	1.17 3.68	2.34 3.76	6.7£ 4.29	2.29	6.76 2.83	2.74 2.09	3.95 2.46	2.93 2.38

Cooperative Besearch Project of USDA and Obio Agricultural Besearch and Development Center, Mooster, Chic.

Watershed Conditions (approximate percentages): Cover of 4% hardwords, 6% reforested, 67% grasslard, 17% coltivated, 6% miscellaneons. Watershed in improved practice.

Maps: Topographic/Bydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USIA Misc. Flob. 1370, p. 26.41-7.

Frecipitation: Fecords hegan 1940. Data from rain gage \$35. Feporting gage changed 1976. Station averages not recomputed.

Bunoff: Becords began January 1, 1967. Measurements discortinued July 1, 1972 to Oct. 15, 1975.

Long-Term Precipitation: National Weather Service records at Coshoctor, Chic.

Air Temperature: See table for Watershed 123, p. 26.010-1.
Gaging: Bain gage 103. Beporting gage obenged 1976, but averages not recomputed.
Station averages: 36 yr beginning 1940 (includes part-year records).
Botes: Code 'I' may reflect estimated storm duration rather than estimated rainfall amount. Code '2' indicates
that an accurately measured total for a series of days has been equally divided among coded days.

197	17	BEAN DAIL	Y LISCHAF	GP (CES)			C	cseccics,	CHIC 8	PIEFSEED	166	
0 a y	Jan	₽eb	ēar	yer	ĕay	Jut	Jtl	A u g	Sep	Cct	Ecv	[e c
1	0.003	0.007	0.168	0.118	0.101	0.007		0.032	0.008		0.018	0.497
2	0.003	0.007	0.133	1. 117	0.120	0.007	J.0J2	0.011	0.007	0.278	0.015	0.393
3	0.003	0.097	0.119	0.559	0.096	0.005	3.001	0.011	0.003	0.235		0.360
4	3.00E	0.007	0.244	0.713	0.108	0.003	0.315	8.011	0.002	0.189	0.015	0.284
5	0.003	0.007	0.175	0.574	0.096	0.005	0.046	0.009	0.005	0.149	0.015	1.242
8	0.003	0.007	0.142	0.431	0.292	0.007	0.021	0.007	0.002	0.171	0.316	0.540
7	0.003	0.007	0.124	1.349	0.176	0.005	0.018	0.005	0.001	0.112	0.135	0.392
8	0.003	0.007	0.111	0.268	0.136	0.009	0.021	0.004	0.001	0.261	0.092	0.329
9	0.103	0.307	0.101	0.204	0.112	0.321	0.013	0.003	0.001	0.299	0.084	0.261
10	0.003	0.007	0.091	0.168	0.096	0.009	0.011	0.005	0.002	0.216	0.232	0.196
11	0.003	0.020	0.081	0.142	0.076	0.008	0.011	0.004	0.001	0.196	0.136	0.166
12	0.003	0.147	0.453	0.118	0.062	0.065	0.018	0.003	0.J T	0.166	0.107	0.148
13	0.003	0.327	0.516	0.101	0.046	0.007	0.011	0.003	0.125	0.148	0.086	0.314
14	0.003	J. 160	0.322	0.107	0.034	0.007	0.011	0.025	0.219	0.130	0.078	1.656
15	0.003	0.130	0.267	0.076	0.030	0.007	0.011	0.059	0.034	0.112	0.071	0.651
18	0.003	0.112	0.205	0.067	0.024	0.007	0.158	0.016	0.291	0.107	0.120	0.474
17	0.003	0.139	0.183	0.962	0.021	9.007	0.044	3.017	0.125	0.091	0.634	0.189
18	0.003	0.085	0.686	0.358	0.018	0.007	0.013	0.009	0.099	0.086	0.235	0.306
19	0.003	0.085	0.231	0.049	0.015	0.007	0.005	0.007	0.726	0.087	0.196	0.251
20	0.003	0.084	0.367	0.047	0.015	0.007	0.005	0.007	0.360	0.062	0.175	0.279
21	0.303	0.065	0.280	3.048	0.013	0.007	0.143	0.007	0.251	0.058	0.239	0.204
22	0.003	c.317	0.332	0.048	0.011	0.307	0.058	0.007	0.190	0.054	0.175	0.175
23	0.003	0.835	0.254	0.121	0.011	0.005	0.016	0.007	0.136	0.045	0.161	0.184
24	0.003	0.763	0.216	3.099	0.011	0.003	0.011	0.007	0.114	0.041	0.155	0.187
2 =	0.005	0.479	0.182	0.139	0.011	0.003	0.009	0.007	0.102	0.041	0.161	0.164
2 €	0.007	0. E4 2	0.155	0.116	0.011	0.002	0.007	0.007	0.190	0.041	0.143	0.113
27	0.007	0.281	0.138	0.098	0.011	0.001	0.007	0.007	0.107	0.037	0.130	0.091
28	0.007	0.212	0.228	0.220	0.009	0.061	0.007	0.007	0.088	0.030	0.118	0.081
29	0.007		0.178	0.16E	0.007	0.001	0.009	3.007	0.071	0.027	0.107	0.076
Ξ0	0.007		0.148	0.124	0.007	0.002	0.009	0.007	0.062	0.024	0.689	0.082
31	0.007		0.130		C.007		0.024	0.007		0.021		0.086
EAR	3500.0	0.1589	0.2289	0.2189	0.0578	0.0082	0.0377	0.0105	0.1106		0.1511	0.3406
INCHES	0.038	1.320	2.114	1.955	0.537		0.314	0.098	ü.999			3.173
VA AF	0.996	1.393	1.865	1.261	0.902	0.221	1.012	0.127	0.177	0.254	0.372	1.096

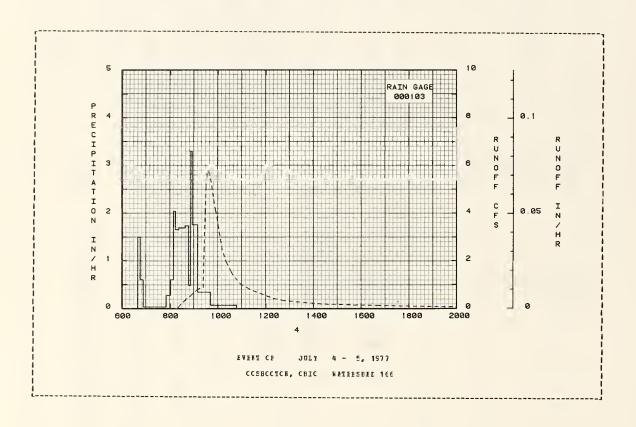
Station Averages: 8 yr beginning 1967 (includes part-year records). Reasurements discontinued July 1972-Cot. 1975. Conversion Eactor: CES to IB/CAY, multiply by 0.300526.

77 SELECTED BUNGE	E EVEBI				CCSR	CCICB, OF	TERW OIE	ESEEC 188	
ANTECEDENT COMDITION	CKS		Б В 1	IBEALL			EUBCE		
Date Bainfall Bo-Day (inches)	Fnncff (inches)	Date Mo-Day	cf Day	Intensity (in/br)	(inches)	Bc-Day	of Lay		(inches)
		EVE	II OE	JOIT 4 -	5, 1977				
EG 000103			5G 000						
7- 4 0.0	0.000	7- 4	638 644	0.0 1.5000	0.0 0.15	7- 4	640 705	0.001	C-0 0-0000
			644 E47	0.8000	0.15		705 800	0.002	0.0000
			E 5 2	0.8000	0.23		810	0.002	0.0000
			750	0.0310	0.28		82 C	0.050	C.0001
WATERSHED CONCILIONS:			7.0	0.0_10	0.20		026	0.0_0	C. 0001
over of 4% hardwoods.			٤01	0.2727	0.31		8.35	0.311	0.0007
R reforested, 87% grass	5-		803	0.6000	0.33		650	0.521	0.0020
and, 17% coltivated, 69			808	0.6000	0.38		908	0.768	0.0044
iscellaneous, contonr s			£13	2.0400	0.55		9 15	0.848	0.0056
roffed.			821	1.6500	0.77		923	0.877	0.0071
			837	1.8875	1.22		9 2 5	2.450	0.0377
			846	1.7333	1.48		928	4.050	0.0098
			£ 5 1	0.4600	1.52		930	5.240	0.0117
			855	3.2000	1.74		9 3 3	5.680	0.0151
			90 9	1.7571	2.15		936	5.780	0.0167
			941	0.3275	2.33		940	5.590	0.0235
			1047	0.0836	2.40		953	4.130	0.0366
							956	3.980	0.0392
							1000	3.500	0.0423
							10 11	2.950	0.0491
							1021	1.940	0.0537
							1037	1.410	0.0593
							1055	1.040	0.0639
							1120	0.786	0.0667
							1220	0-409	0.0761
							1250	0.311	0.0764
							1420	0.162	0.0830
							1650	0.107	0.0875
							2220	0.058	0.0932
							2490	320.0	0.0544

Conversion Factor: CFS to IM/HE, anltiply by 0.01252100.

1977 s	ELECTED BONG	DEE EVERT				ccs	ACCICE, C	BIC WAT	EESEED 166		
ANTECE Late Bo-Day	rent condit Bainfall irches	IICBS Buncff (inches)	Dat∈ Ec-Day	FA: Time of Lay	IRFALL Intensity (in/br)	Acc. (inches)					
			EVENT CE	3011	4 - 5,	1977 CC	NTINUEC)				
							7- 5	1220 2400	0.050	0.1026 0.1084	

Conversion Factor: CES to IF, BE, multiply by 0.01252100.



26.041- 3

STILLWATER, CRIABCEA WATERSBEE W-1

LCCMTICB: Woble Co., Okla.; 15 mi. N. of Stillwater; Black Fear Creek, Arkausas Fiver. Lat. 16 deg. 21 min. N.; Iong. 97 deg. 04 mir. N.

16.70 acres

ž.	CRIBIT	FBFCIF	II AII C B	ARC FOR	SCFE (IN	CFFS)			STILLE	ATFE, C	RIABC	A WATE	BSBFD	k - 1		
		Jar	₽eb	far	Arr	l'a y	Jun	Jul	žu	19 5	er	Oct	RCA	D∈c		Arrual
1977	P Q	0.55	1.55 0.013	1.52 0.044			3.09 0.039	1.26			3.63 3.012	0.65	2.02			29.85 4.174
SIA AV	P Q	0.65	1.09 0.252	1.96 0.62			3.86 0.938	3.73 0.46			1.28 1.764	2.57 0.703	1.69 0.61			31.35 7.820
	ANKO	AL FAXI		BAFGE	(in/br)	AND MAXIM		ES OP B						151117	214 	
		Disch Date	arge	1 Bct Cat∈		2 Bours at∈ Vol.	€ E	Vol.	12 E		1		2 C	vcl.		Days Vol.
1977		5-20	3.476	5-21	1.012 5	-20 1.32	1 5-20	2.822	5-20	2.870	5-20	2.671	5-19	2.935	5-19	3.645
						PARIFO	S FCF E	FFICE C	F FFCC	E D						
		4-18 1957	6.990	8- 8 3 1973		- 8 3.81:	2 7-15 1951	3.963	10 - 2 1959	4.519	7-14 1951	5.185	11- 2	5.720	10-26	

Watershed Conditions: All native grass pasture located in region (B-60) of the Ceutral Bolling Bed Frairies land resource area.

Majes: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Fuk. 1194, p. 37.1-7 (revised).

Precipitation: Fecords began July 1951. Data from B-1 rain gage. Data from B-3 rain gage through 1964 combined with data from B-1 from 1965 onward. Station averages include part-year records.

Bunoff: Eccords began July 1951. Station averages include part-year records.

Long-Term Precipitation: Maticual Weather Service records at Stillwater, Cklahoma.

rond-lerm arecitiration:	. Raticual weather service records at stillwater, C	Klancma.
Notes: Station cperated	l ty Cklahoma Agricultural Experiment Statiou since :	March 30, 1973.

1977	Di	ILY PERC	IFITATICN	(INCHES)			STILLE	ATEF, CRI	ABCBA WA	TEBSEED W	-1	
Day	Jan	P∈b	Bar	ybı	Bay	Jur	Jel	Aug	S€ŗ	.Cct	gc. A	Ľ€C
1	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.94	0.0
2	0.0	0.0	0.03	0.0	0.17	0.0	0.0	0.14	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0
4	0.0	0.0	0-7	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.10
Ē	0.0	0.0	0.0	0.0	1. 13	0.0	0.0	0.0	0.14	0.0	0.0	0.0
€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
٤	0-0	0.0	0.3	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.93	0.0
9	0.405	0.0	0.0	3.0	0-0	0.0	0.0	0.0	0.0	0.0	0.15	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0
11	0.0	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0
12	0.0	0.09	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0 - C	0.6	0.0
13	0.0	0.0	0.3	0.0	0.0	0.0	0.0	2.03	0.46	0.0	0.0	0.0
14	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.07	0.76	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.65	0.0	0.0	0.0
16	0.0	0-0	0.0	0.66	0.68	0.0	0.0	0.0	0.33	0.0	0.0	0.0
17	0.0	0.0	0.0	0-44	0.25	0.0	0.0	0.09	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0
19 20	0.0	0.0	0.0	0.0	1. 11	0-0	0.0	0.24	0.0	0.0	0.6	0.0
20	0.0	0.0	0.0	0.75	1.89	0.0	0.0	0-0	0.0	0.0	0.0	0 - 0
21	0.0	0.0	0.0	0.10	1.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.10	0.0	0.0	0-04	0.0	0.20	C _ G	0.0	0.0	0.16	0.0	0.0
23	0.09	0.0	0.0	0.0	1. 14	0.21	0-0	0.52	0.0	0.47	0.0	0.0
25	0.0	0.0	0.0	0.03	0.0	0.07	0-0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.25	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	1.15	0.0	0.52	0.0	0 - 0	0.0	0.0	0.0	G_C	0.0
28 29	0.0	0.0	0.24	0.0	0.17	1.20	0.0	0.32	0.07	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0-0	0.0	0.0	0.01	0.0	0.0	0.0€
31	0.0		0.0	0.93	0.34	0.01	0.0	0.0	0.0	0-22	0 - 0	0.0
			0.9		C-04		0.45	0.0		0.0		0.0
ICIAI	0-59	1.55	1.52	2.95	6.60	3.69	1.26	3.41	3.63	0.85	2.02	0.18
STA AV	0.65	1.09	1.96	2.67	4.79	3.66	3.73	2.91	4.28	2.57	1.69	1. 14

Gagiug: Baiu gaçe B-1. Station Averages: 27 yr beginuing 1951 (part-year records included).

Cooperative Research Project of OSDA and Cklahoma Agricultural Experiment Station

197	7	BEAN DAII	Y IISCBAB	GE (CFS)			2711167	TFF, CKI	BCBA WA	IEBSEFE 6-	-1	
Day	Jan	F∈b	Bar	Apr	2a y	Jur	Jtl	Aug	S€F	Cct	Nev	Lec
1	0.0	0.0	0.0	0.0	0.0	0.0	0-010	0.0	0.0	0.0	0.007	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	r 0.6	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.133	0.0	6-0	ი-0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.071	0.0	0.0	0.0	5.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.015	0.0
9	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0
10	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0
12	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
15	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0
16	0.0	v.0	0.0	0.0	0.0	0.0	3.0	0.0	0.001	0.0	0.0	0.0
17	0.0	0.0	0.0	0.005	0.0	0.0	9 . 0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.3	0.3	0.0	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.010	0.928	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.009	1-089	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.3	0.0	0.458	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
26	9.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.012	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.019	0.0	0.0 I	0.028	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.029	0.003	0.ŭ	0.9	0.0	0.0	0.0	0-0	0.0
31	0.0		0.0		0.0	· · · · · · · · · · · · · · · · · · ·	0.0	0.0		0.0		0.0
FAN	0.0	0.0003	0.0010	0.0018	0.0892	0.0009	0.0003	0.0	0.0003	0.0	0.0008	0-0
BCBES	0.0	0.313	0.844	3.078	3.941	0.039	0.014	0.0	0.012	0.0	0.036	0.0
TA AV	J. 201	0.252	0.820	0.871	1.819	0.938	0.461	0.217	U.7E4	0.700	0.618	0.34

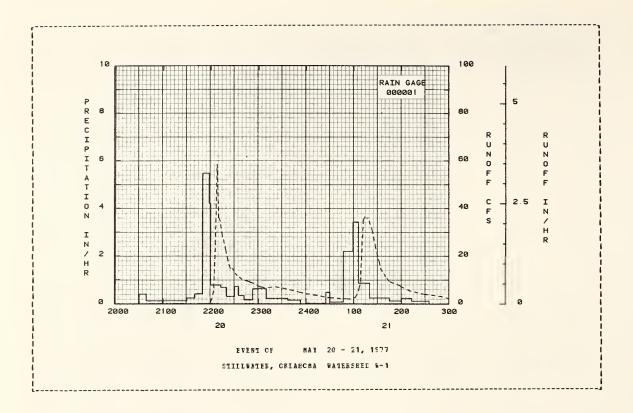
Conversion Factor: CFS to IM/FMT, multiply by 1.425249. Station Averages: 27 yr beginning 1951 |part-year records included).

SELECTED RONO	FF EVENT				STILLEATE	5, CKIABO	HA VATER	SBFC W-1	
ANTECEDENT CONDIT	CES		FA	IBFALL			EONCE	F	
ANTECECENT CONDITE Date Rainfall Mo-Day (irches)	Runoff (inches)	Dat∈ Bo-Day	Tir∈ cf Cay	Intersity (in/br)	Acc. (inches)	Date Sc-Day	Time of Cay	Rate (cfs)	Acc. (inches)
		EVE	NT CF	BAT 20 -	21, 1977				
BG 000001			FG 000	00 1					
5-20 0.0	0.004	5-20		0.0	3.0	5-20		0.0	0.0
			2039	0.4000			2110	0.0	0.0
			2130	0.1176	0.18		2113	0.0	0.0
							2138	0.013	0.0002
			2150	0.4200	0.27		2147	0.030	0.0004
WATERSHED CCKCITICES:									
00% cf area ir native			2158	5.4750	1.00		2151	0.054	0.0005
rass pasture in fair			2200	4.2000	1.14		2154	0.113	0.0008
ondition.			2213	0.7846	1.31		2156	9-147	0.0011
			2220	0.6657	1.39		2158	0.261	0.0015
			2230	0.3000			2200	0.672	0.0024
			2235	0.7200	1.50		2202	2.374	0.0054
			2242	0.3429	1.54		2204	5.304	0.0130
			2253	0.1836	1.57		2206	25.187	0.0432
			2310	0.8353	1.75		2208	58.532	0.1260
			2337	0.2222	1.65		2210	28.313	0.2199
			2353	0.1500	1.65		2212	34.587	0.2900
			2430	0.0	1.89		2214	29.712	0.3537
		5-21	25	0.0240			2219	22.588	0.4830
			30	0.4800	1.94		2221		0.5245
			47	0.0706	1.58		2223	16.363	0.5599
			59	2.2000	2-40		2225	14.673	0.5908
			106	3.4286	2.60		2227	14.939	0.6199
			120	0.6571	3.00		2229	13.750	0.6484
			145	0.2400	3.10		2231	12.596	0.6745
			200	0.1200	3.13		2233	11.958	0.6966
			213	0.2308			2236	11.075	0.7330
			2 35	0.1091	3.22		2239	10.335	0.7648
							2247	9.445	0.8931
							2254	8-470	0.9051
							2302	7.157	0.9670

Conversion Eactor: CFS to IN/B5, multiply by 0.059385.

	ELECIEL BUBG	ALL LAIBI				SILLIBALI	er, Criss	CHA SAIFE	241F A-1	
ARGECE	PRET COMPTS	TORE		E 3 T	B 5 2 7 7			E 11 11 C 12	E	
[at€	Bainfall	Functi	Date	Tire	Intersity	Acc.	Late	Time	Fate	Acc.
Bo-Day	Bainfall (irches)	(inches)	Bo-Lay	of tay	(in/hr)	(inches)	Bc-Eay	cf Day	(cís)	(inches)
			EARRI CE	TAB	20 - 21,	1977 (CC	PINUEC)			
							5-20	2308	6.616 7.157 5.843	1.0079
								2322	7.157	1.1034
								2349	5.843	1.2192
								2356 2400	4.496	1.3010
								2400	4.243	1.3163
							5-21	14	3.435 2.492	1.3715
								∃0	2.452	1.4184
								5€	1.570	
								102	2.711	
								194	4.006	1.4564
								136	5.591	
								108	7.914	1.5193
								110	20-172	1.5471
								112	35.029	1.6017
								1 14	36.545	1-6726
								116	35.877	1. 7992
								118	36.162	
								123	30.992	1.5617
								128	23.025	
								130	20-075	2.1560
								132	17.722	2.1954
								134	17.722 14.562	2.2274
								136	13.605	2.2553
								138	12.649	2.2813
								140	11.452	2.3051
								142	10.663	2.3270
								144	9.624	
								146	9-211	
								150	6.614	2.4010
								156	7.914	2.4501
								203	6.616	2.5005
								212	5.304	2.5536
								229		2.6319
								252		2.7113
								312		2.7611
								336	1.303	2, 6012
								352	0.862	2.6183
								437		2.6294
								423	0-461	2.8380
								437		2.6437

Conversion Factor: CFS to IN/85, multiply by 0.059365.



STILLWATER, ORIANCEA WATERSHED W-3

LCCATICB: Boble Co., Okla.; 15 mi. B. of Stillwater; Black Fear Creek, Arkansas Biver. Lat. 36 deg. 21 min. B.; Long. 97 deg. 04 min. B.

AREA: 92.00 acres

₽C	KTBI	PRECIP	TIBTICE	ARE FUNC	FE (INCEF	٤)		STI	LIWATES,	CKIABO	1 WATE	W 31828	-3	
		Jau	P∈b	Par	УÈГ	Pay	Juu	Jul	Aug	Sep	0ct	RCA	D∈C	Arrual
1977	P Ç	0.59	1.55	1.55 0.001	2.83 0.004	8.33 2.662	3.18 0.008	1.25 9.002	3.47	3.21 0.001	0.61	1.95 0.005	0.18 0.0	26.50 2.705
STA AV	P Q	0.65	1.09 0.239	1.96 0.651	2.57 0.680	4.67 1.373	3.81 0.759	3.69 0.397	2.89 0.061	4.08 0.654	2.51 0.566	1.65	1.13 0.207	30.70 6.097
	ANNOAL MAXIMOM DISCHARGE (im/br) AND MAXIMUM VOLUMES OF BUNCEF (imches) FCB SELECTED TIME IMTERVALS Baximum Volume for Selected Time Interval													
		Date 1		1 Bcur Cate Vc	2 l. Dat∈			urs 1 Vol. La			Vol.		ys Vol. D	€ Caşs ate Vol.
1977		5-21	1.166	5-21 0.	762 5-21	1.029	£-20	2.055 5-	20 2.16	4 5-20	2.165	5-19	2.166 5	-16 2.621
						EARIPOES	ECE PF	FICE CF F	ECCED					
		7-15 (1951		7-15 2.0 1951	896 7-15 1951		7-15 1951		2 4.95°	7 10- 1 1959	5.185	10- 1 1959		-30 €.143 959

Watersbed Conditions: All native grass cover, 72% in hay meadow and 66% in pasture. The pasture was grazed using normal procedures for the year.

Baps: Topographic/Bydrologic - Selected Ennoff Events for Small Agricultural Watersheds in the United States, USDA, AES, Jun. 1566, p. 37.2-6.

Frecipitation: Records began July 1951. Data from rain gage 6-3. Station averages include part-year records. Bunoff: Becords began July 1951. Station averages include part-year records. Long-Term Frecipitation: Maticual Weather Service records at Stillwater, Cklaboma.

Wotes: Station operated by Cklaboma Agricultural Experiment Station since March 30, 1973.

1971	7 E.	ILY PREC	IFITATICB	(IECHES)			SIIIIV	ATEE, CRI	ABCMA WA	SEESEEC 6	-3	
La y	Jan	F∈b	Ear	Apr	Bay	Jun	Jul	Aυç	S∈ŗ	Cct	Bov	D∈c
1 2 1 4 5	0.0 0.0 0.0 0.0	0.9 0.0 0.0 0.0	0.0 0.04 0.0 0.0	0-0 0-0 0-0 0-0	0.0 0.10 0.0 0.0 0.98	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.16 0.0 0.0	0.9 0.0 0.0 0.10 0.13	0.0 0.0 0.0 0.0	0.90 0.0 0.0 0.0	0.0 0.0 0.0 0.11
1 6 1 7 1 8 1 9	0.0 0.0 0.0 0.40\$	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.19 0.9	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.92 0.13	0.0 0.0 0.0 0.0
11 12 13 14 15	0.0 0.0 0.0 0.0	1.12 0.09 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 2.08 0.05	0.47 3.0 0.42 0.68 0.54	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
16 17 18 19 120	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.70 0.38 0.0 0.6	0.66 0.25 0.0 1.07	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.10 0.0 0.25	0.27 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.C	0.0 0.0 0.0 0.0
21 22 23 24 25	0.0 0.09 0.10 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.10 0.04 0.0 0.04 0.0	1.32 0.0 0.59 0.0	0.0 0.21 0.19 0.09 1.42	0.0 0.0 0.0 0.0	0.0 0.0 0.52 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.16 0.41 0.0	0.0 0.0 0.0 0.0	0-0 0-0 0-0 0-0
26 27 28 29 30	0.0 0.0 0.0 0.0 0.0	0.34 0.0 0.0	0.12 1.15 0.24 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.48 0.18 0.0 0.39	0.0 0.0 1.25 0.0 0.02	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 4 6	0.0 0.0 0.31 0.0 0.0	0.0 0.0 0.06 0.0	0-0 0-0 0-0 0-0 0-24	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.07 0.0
TCTAL STA AV	0.59 0.65	1.55	1.55 1.56	2.85 2.57	6.22 4.67	3.18 3.61	1.25 3.69	3.47 2.89	3.21 4.06	0.61 2.51	1.95 1.65	0.16 1.12

Gaging: Bain gage F-3.
Station Averages: 27 yr beginning 1951 (part-year records included).

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197	7	SFAN DAIL	Y TISCEBE	SE (CES)			STILLE	TEF, Chi	ABCEA WAS	IEESFEC #-	-3	
гау	Jan	F∈b	Mar	Apr	Pay	Jur	Jul	Δυg	Sep	Cct	BCV	Lec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.001	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.304	0.0	0.0	0.0	0.0	0.0	0.0	0.0
٤	0.0	0.0	0.0	0.5	J.182	0.0	0.0	0.0	0.0	0.0	0.0	ŭ.O
7	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ε	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.0
9	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0
10	6.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
11	0.3	0.006	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.0
12	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.1	0.0	0.0	U. 0	0-0	0.0	0.0	0.0	0.0	6.0
14	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.002	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.003	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.3	0.0	0.3	0.004	2.755	0.0	0.9	0.0	0.0	0.0	0.0	0.0
21	0.0	0-0	0.0	0.0	5.615	0.0	0.0	0.0	0.0	0.0	0.0	C.0
22	0.0	0-0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
23	0.0	J. 0	0.3	0.0	1.795	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0-C	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.C	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C.O	0.0	0.0
27	0.3	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.001	2.3	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0_0	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
EAR	0.0	0.0002	0.0002	3000.0	0.3344	0.0011	0.0002	0.0	0.0001	0.0	3000.0	0.0
BCHES	0.0	0.002	0.301	0.004	2.682	0.608	0.002	0.0	0.001	0.0	0.005	0.0
VA AF	0.114	0.239	0.651	0.589	1.373	0.759	0.397	0.061	0.654	0.588	0.394	0.20

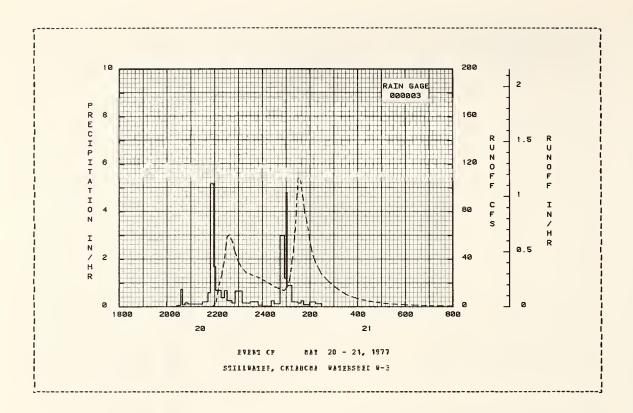
Conversion Factor: CFS to Ib/LAY, multiply by 0.258714. Staticn Averages: 27 yr beginring 1951 (part-year records included).

ANTICLEMI CUMDITICES Late Mainfall Huncff Dat Mo-Day irches) (inches) Mo-I 	EVERT CE	Intersity	Acc. inches	Date Mc-Day	Time	Fate	Acc.
Ho-Day irches (inches No-1	EYFET CE FG 000 20 2025 2035 2039 2046	in/br)	inches 	Hc-Day	Time of Day		
BG 000003 5-20 0.0 0.0 5-2 BATEFSBFD CCBLITICBS: 100% cf area ir bative grass; 32% in bay meadow in good condition, 46% in ras- ture in fair ccndition, and 22% in pasture in poor	EG 000 20 2025 2035 2039 2048	0.0 0.0 0.0600	-				
HG 000003 5-20 0.0 1 BATEFSBFD CCBLITICBS: 100% of area ir bative 1 grass; 32% in bay meadow in 2000 condition, 46% in ras- 1 ture in fair condition, and 22% in pasture in poor	EG 000 20 2025 2035 2039 2048	0.0 0.0 0.0600	-				
5-20 0.0 0.0 5-2 	20 2025 2035 2039 2048	0.0 0.0800	0.0				
5-20 0.0 0.0 5-2 	20 2025 2035 2039 2048	0.0 0.0800	0.0				
	2035 2039 2048			5-20	2135		0.0
1 100% cf area ir native 1 grass; 32% in hay meadow in 2 good condition, 46% in pas- 1 ture in fair condition, and 22% in pasture in poor	2048		0.01		2137	0.585	
100% cf area ir bative grass; 32% in bay meadow in good condition, 46% in pas- ture in fair condition, and 22% in pasture in poor		0.7500	0.08		2140	0.088	
100% cf area ir bative grass; 32% in bay meadow in good condition, 46% in pas- ture in fair condition, and 22% in pasture in poor	2053	0.0857	0.27		2146		0-0004
100% cf area ir bative grass; 32% in bay meadow in good condition, 46% in pas- ture in fair condition, and 22% in pasture in poor	2033	0.1714	0.09		2151	0.099	0.0004
grass; 32% in bay meadow in good condition, 46% in pas- ture in fair condition, and 22% in pasture in poor							
good condition, 46% in ras- ture in fair condition, and 22% in pasture in poor	2130 2144	0.1135 0.2143	0.18		2155	0.288	0.0008
ture in fair condition, and 22% in pasture in poor	2144	0.2143	0.21		2156	0.588	0.0007
22% in pasture in poor	2150	0.8000	5.27		2158 2200	1.283	0 - 00 10
22% in pasture in poor	2158	5.1750	0.98		2200	2.505	0.0017
	2203	1.8800	1.10		2202	2.940	0.0027
1	2217	0.6857	1.26		2204	4.379	0.0040
i	2225	0.3750	1.31		2206	7.472	0.0061
	2232	0.6857	1.39		2208	11.283	0.0095
i	2244	0.2500	1.44		2210	15.171	
1	2252	0.1500			2212	18.758	0.0203
	2310	0.6667	1.88		2214	21.165	0.0275
	2330	0.1500	1.71		2218	25.083	0.0444
	2350	0.2100	1.78		2220	30.459	0.0545
	2400	0.0800	1.75		2223	35.185	0.0722
5-2	21 23	0.0261	1.80		2226	41.482	0.0929
	30	0.2571	1.03		2228	49.232	0.1092
	45	0.1200	1.88		2230	54.319	0.1278
	56	3.0000	2.41		2232	58.991	0.1481
	100	1.2000	2.45		2238	228.03	0.2127
	103	4.6000			2246	53.603	
	1 15	0.9000	2,91		2250	47.806	
	1 30	0.2000	2.9€		2255	42.762	
	138	0.1500	2.9€		2300		0.4064
	145		3.01		2307		
1	200	0.0800	3.03		2320	28.535	0.5259

Conversion Factor: CFS to IB/HE, multiply by 0.01078.

	LECTED BUNG					SILLEAL				
ABTECED	ENT CCHDIT	PIONS		EAI	NFALL			FORCI	F	Acc. (inches)
Cate	Bainfall	Buncff	Date	Tire	Intensity	Acc.	[at∈	Tire	Fate	Acc.
eo-Day	(itches)	(1DCDES)	no-Day	of Lay	(1D/bI)	(1DCbes)	ес-гау	or ray	(cts)	(1DCb∈5)
			RWENT OF	MYA	20 - 21,	1972 (01)	TTABECA			
			5-21	2 15	0.2000 0.1200	3.)6	5-23	2354	24.267	0.6672
				230	0.1209	3.11	5.454	2400	10 053	0.7127
								30	16.520	0.6334
								55	13.564	6.8902
								105	17.708	0.5183
								109	17.708 22.265 26.841	0.5327
								111	26.841	0.5415
								114	32.779	0.5576
								115		
								118	42.535	
								120	£1.058	
								122	55.445	
								124	67.170	
								126	78.148	1.0713
								128	52.725	1.1020
								130	10€.7€€	1.1379
									108.209	
									106.261	
								143	52.135	1.3758
								146	63.264	1.4270
								148	76.367 73.124 66.976	1.4581
								152 155	73.124	1.5105
								155	61.053	1.5463
								200		1.6038
								203		
								206	46.254	
								210	41.605	
								215	37.013	
								222	52,266	1.7654
								230	32.266 27.403	1.6123
								242	23.151	1.8668
								254	19.234	
								307		
								322	12.281	1.9912
								337	5.437	2.0205
								354	5.437 7.564 5.850	2.0465
								412	5.850	2.0881
								430	4.611	2.0651
								448	3.701 2.826	2.0985
								532		
								558 624		2.1302 2.1372
								654 728	0.808	2.1435
								806	0.808	2 1432
								856		2.1542

Conversion Factor: CPS to IB/BF, multiply by 0.01078.



37.002- 4

LOCATION: #cLennan Co., Texas; 14 mi. ESP of Waco; Frazos Fiver Pasin. Lat. 31 deg. 31 min. 11 sec. B.; long. 56 deg. 53 min. 34 sec. W.

AFEA: 575.30 acres

P(BIBL	Y PRECIP	ITATICE	ANC EUB	CFF IB	CFES)			FIESEL (WACC), I	EXAS 6	ATEFSHE	C C		
		Jan	P∈b	ēar	ytr	Bay	Jun	Jnl	109	5e ₽	Cct	¥c*	Dec		lspans
1577	ē 6	2.11 0.271	4.94 2.769	3.76 1.328	4.65 1.42		0.96	0.03	0.80 0.0	2.15 0.0	1.59	2.68	0.2	1	23.92 5.792
TA AV	F Q	1.94	2.68 0.705	2.28 0.643	4-07		3.17 0.590	1.69	2.51 0.160	3.42 0.322	3.43	2.97 0.509	2-3		34.60 6.765
	ANN	Basi				AND PARISO	taxieus	Volume :	fcr Selec	ted Time	Interva	1			 r _{29c}
	ANN		 ene arge	1 Bon Date V	 r	2 Bcnrs ate Vol.	Eaximum 6 Bo	Volume :		ted Time	Int∈rva Day	1 2 Da		8	Cays Vol.
1977	ANN	Bagi Disch	mnm arge Bate	1 Bon Date V	r cl. D	2 Bcnrs	Eaximum 6 Bo Cate	Volume : crs Vol. I	fcr Selec 12 Bcnrs Date Vcl	ted Time 1	Interva Day Vol.	l 2 Ca Cate	ys Vcl.	8 Date	¥01.
1977	ANN	Bagi Disch Date	mnm arge Bate	1 Bon Date V	r cl. D	2 Bcmrs ate Vol.	Eaximum 6 Bo Cate	Volume : crs Vol. I	for Selec 12 Bonrs Date Vol	ted Time 1	Interva Day Vol.	l 2 Ca Cate	ys Vcl.	8 Date	¥01.

Watershed Conditions: 75% pastore; 6% fall planted cats; 2% gravel and paved roads; 17% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed.

Baps: Topographic/Hydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USLA Bisc. Pub. 945. - 42.4-6.

Precipitation: Records began Feb. 1938. Data from Thiessen weighted method using rain gages 5, 14, 20.

Finnoff: Records tegan Feb. 1938. Station not in operation July 1942 to Barch 1, 1949.

Long-Term Precipitation: Mational Weather Service records at Waco, Texas.

1	977 CAI	LY AIE	TERFI	6 A T O F	E (E	EGBEE	5 E)						BIES	EL (%	ycc)	, 1EI	λS	WATE	FSBE	D C			
Day	Jan sas si	ir ma	Peb m min	ea max) he		₽a	7	Ju	in or	Ju		aa e		Se mar		Cc Eas		No tar		10 to	
1 2 3 1 4 5	35 39 65	26 5 1 5 35 6	51 2B 53 38 52 45 55 31 55 36	70 71 71 60 55	39 53 43 38 42	70 61 67 87 72	51 58 56 51 45	82 84 60 86 85	62 59 64 68 68	91 95 95 94 95	70 70 65 67 70	94 93 95 95	74 72 71 69 66	101 96 101 101 96	74 72 73 73 73	96 97 97 97 99	73 73 73 74 74	97 57 62 62 64	76 75 61 56	65 65 75	65 43 45 48 52	6 1 75 76 6 6	90 27 50 97 98
6 1 7 1 8 1 9	55 3 56 6	13 6 10 9 19 6	52 32 50 43 58 41 54 37 54 46	61 72 73 72 77	36 39 41 48	83 62 62 80 83	4 6 4 6 5 1 5 0 5 0	85 64 85 83	66	96 97 91 93	69 73 65 70 68	94 54 55 97	72 71 71 72 79	9 6 9 6 9 6 10 0 9 6	72 73 72 73 74	98 94 91 90 96	71 71 69 69 72	62 92 96 92 80	65 62 72 58 57		56 53 52 42 33	65 64 75 78	27 25 56 27 25
 11 12 13 14 15	99 99 92	35 6 37 7	65 65 65 46 71 36 71 41 63 39	74 72 63 83 63	53 42 45 46 62	83 61 60 76 73	50 56 61 60 58		65	90	69 65 66 71 72	93 96 95 94	73 72 71 72 73	95 55 59 96 54	74 79 73 71 71	95 97 98 66 93	72 68 65 63 64	69 72 62 67 83	51 92 95 97 57	72 74 73 75 81	35 43 47 43 53	55 67 65 72 73	90 25 60 37
1 16 1 17 1 18 1 19 1 20	48 47 45	19 7 21 7 19 8	57 33 77 38 79 45 80 48 73 36	62 75 78 78 78	52 64 56 53	65 73 76 63 83	5 E 5 E 6 3 6 0	83 63 62 61 83	€7	93 92 93 93	72 70 71 72 70	97 95 97 96 97	71 70 70 71 71	99 100 100 96 97	74 74 77 72 76	96 96 97 95	68 69 74 69 82	60 64 89 91 90	45 47 56 59 62	85 65 74 77 81	61 52 56 60 63	83 60 63 76	52 46 40 40 33
1 21 1 22 1 23 1 24 1 25	58 ¢	10 7 14 7 36 8	73 36 73 55 73 54 77 45	79 67 68 68	94 91 91 51 53	71 72 75 78 78	58 52 55 52	84 67 65 85		93 92 90 87 89	74 71 71 69 73	94 99 101 103 103	71 73 74 76 72	98 96 98 97	76 76 76 76	95 94 95 98 99	67 67 79 76 77	66 65 74 76 60	61 60 61 76 57	82 62 61 61 66	46 52 51 59 48	53 60 74 61 80	33 41 20 26
1 26 1 27 1 28 1 29 1 30 1 31	71 70 44 16	37 6 35 6	14 47 52 29 56 34	67 72 64 64	60 63 45 53 57 53	80 64 69 79	51 56 60 60	87 69 67 90	69	90 92 92 93 93	71 70 72 72 72	100 0 54 100 101 101	79 76 76 75 75	98 96 98 98 98	74 75 73 71 72 72	59 101 100 97 97	76 74 73 73 74	66 65 66 67	58 61 65 63 64 62	67	42 56 43 39	56	27 34 37 41 46 46
I AV. I BEAN I STA AV	52 41.5 56	5	8 41 54.7 52 40	61	.0 .0	79 66 77	. 8	84 74 83	. 4	92 61 89			72 -1 72	€ 5	74 -7 72	83	71 .4 66	ες 72 61		€1	49 .9 46	5 €	90 .9 39

Station Averages: 39 yr beginning 1939. Botes: Data taken daily with maximum and minimum thermometers at 0800 of the day shown.

Cooperative Besearch Project of OSDA and Tesas Agricultural Esperiment Station

42.002- 1

1977	£.	AILY PEEC	IFITATIC B	(1bCHES)			12414	L (WACC),	, TEXAS	WATEFSREE	c	
Cay	Jan	F€b	Bar	ybt	t a y	Jan	Jul	Aug	Sep	Cct	Nev	D€C
1	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.29	0.0
2	0.16	0.41	0.0	0.0	0.0	0.0	0.)	0.0	0.0	0.0	0.0	0-0
3	0.24	0.08	1.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	6.5	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Ē	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0
7	0.0	0.0	0.3	0.9	0.0	0-0	0.0	0.0	0.15	0.0	0.0	0.0
8	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
5	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.12	0.0	1.73	0.3
10	0.0	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0
11	0.0	1.97	0.10	0.0	0.0	0.37	0.0	0.0	0.0	0.02	0.0	0.0
12	0.3	0.0	0.0	3.3	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
13	0.57	0.0	0.0	0.0	9.0	0.72	0.0	0.0	1.71	0.0	0.0	0.10
14	0.0	0.0	0.5	0.0	0.0	0.04	0.0	0.30	0.0	0.0	0.0	0.0
15	0.0	0.3	0.0	1.95	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.93	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.3	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0
19	0.0	0.0	0.)	0.03	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.91	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.40	0.0	0.0
22	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0
23	0.13	0.21	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.3	5.0	0.0	0.0	0.0	0.24	0.0	0.0	0.03	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
26	0.0	0.37	1.24	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.11
30	0.87		0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0
31	0.0		0.0		0.36		0.0	0.0		0.0		0.0
TCTAI	2.11	4.04	3.76	4.65	0.74	0.96	0.03	0.80	2.15	1. 59	2.88	0.21
SIA AV	1.54	2.68	2.28	4.07	2.53	3.17	1.85	2.51	3.42	3.43	2.57	2.31

Gaging: Thiesser weighted average of rain gages 5, 14, and 20. Station Averages: 32 yr beginning 1938 (part-year records not included). Station not in operation July 1543 to Barch 1949.

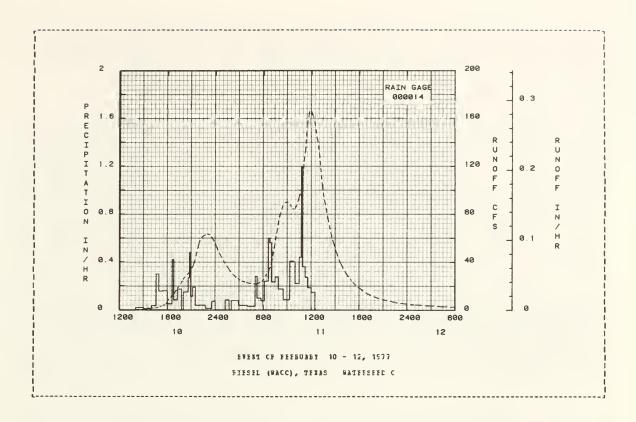
197	7	BEAR DAII	Y LISCHAR	GE (CFS)			FIES	BI (WACC)	, TEXAS	WATERSHE	C C	
Day	Jan	P∈b	Bar	Apr	Bay	Jur	Jul	Aug	Sep	Cct	BCA	Lec
1	0.001	0.538	0.0 I	0.007	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.003	0.816	0.001	0.005	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.004	4.240	10.296	0.038	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.003	0.668	1.065	0.004	0.003	0.0	0.0	0.0	0.0	0-0	0.0	0.0
5	0.002	0.201	0.183	r 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.001	0.088	0.058	r 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.001	0.047	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
е	0.001	0.028	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.001	0.019	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	r 0.0	9.832	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.001	47.944	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.001	1.864	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	1.720	0.372	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.861	0.142	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.188	0.054	0.001	3.486	9.0	0.0	0.9	0.0	0.0	0.0	0-0	0.0
16	0.968	0.028	0.0	19.837	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.032	0.018	0.0 T	1.630	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.020	0.012	0.0 T	0.272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.013	0.008	0.0	0.074	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.010	0.004	0.0	7.564	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.008	0.003	0-0	1.444	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.008	0.003	0.0	0.242	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.016	0.015	0.0	0.047	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.018	0.006	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.015	0.004	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.012	0.002	1.845	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.010		13.363	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.007	0.001	5.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.003		0.309	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1.452		0.073	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	2.114		0.015		0.0		0.0	0.0		0.0		0.0
EAN	0.2127	2.4056	1.0422	1.1545	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHES	0.271	2.769	1.328	1.424	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VA AT	0.491	0.705	0.643	1.104	0.894	0.590	0.241	0.160	0.322	0.549	0.505	0.56

Station Averages: 32 yr beginning 1938 (part-year records not included). Station not in operation July 1543 to Barch 1549.
Conversion Factor: CFS to IM/DAY, multiply by 0.041108.

377 SELECTEG ROMORF EVENT				FIFSFI	Direct . 1	TFRAC GA	TEESBRE C	
ANTECEDENT CCBOITICNS Cate Fainfall Funcff Bo-Oay (irches) (inches)	Oate Mo-Day	Fel Time cf Day	NEALL Intensity (in/hr)	Acc. (inches)	Eat∈ Bc-Eay	FUNCE Time of Day	F Bate (cfs)	Acc. (inches)
			UARY 10 -					
FG 003014 2-10 0.47 0.001 WATEFSBEE CCHITICHE:	2-10	EG J003 1400 1500 1600 1634 1854	0.0 0.0200 0.0100 0.0353 0.3040	0.0 0.02 0.03 0.05 0.05	2-10	1400 1421 1441 1454 1502	0.184 0.257 0.352 0.487 0.584	0.0 0.0001 0.0003 0.0004 0.0008
75% rasture; 6% fall planted pate; 2% gravel and raved coads; 17% other. Approx. 30% of other is Johnson-prass and weeds in Conser-		1725 1759 1835 1645 1914	0.1548 0.1588 0.0500 0.4200 0.3828	0.23 0.32 0.35 0.42 0.48		1506 1512 1521 1530 1541	0.658 0.849 1.075 1.307 1.452	0.0036 0.0008 0.0010 0.0013 0.0018
mation reserve, beither Filled nor grazed.		1959 1959 2035 2044 2054	0.1742 0.0 0.1500 0.2667 0.4800	0.55 0.55 0.64 0.68 0.76		1555 1612 1636 1849 1705	1.528 1.620 1.847 2.185 2.700	0.0024 0.0031 0.0043 0.0050 0.0062
								0.0069 0.0084 0.0055 0.0110 0.0127
	2-11							0.0139 0.0157 0.0188 0.0239 0.0284
								0.0336 0.0395 0.0481 0.0533 0.0592
		839 849 704 730 752	0.2400 0.8000 0.5800 0.2308 0.2727	1.39 1.49 1.83 1.73 1.83		1958 2010 2028 2053 2112	25.829 27.457 29.550 32.454 36.854	0.0883 0.0754 0.0900 0.1122 0.1390
		830 919 944 959 1029	0.1737 0.0657 0.4060 0.4000 0.2200	1.54 2.01 2.18 2.28 2.39		2127 2140 2151 220 = 2222	42.022 48.275 54.083 57.947 81.359	0.1479 0.1846 0.1807 0.1995 0.2322
								0.2695 0.3036 0.3324 0.3569 0.3642
		1229	0.1448	3.08	2-11	2400 18 46 101 111	55.301 45.757 43.743 40.931 38.973	0.4035 0.4305 0.4875 0.4860 0.4874
						133 154 218 235 251	35.341 31.858 26.988 27.089 25.947	0.5207 0.5409 0.5617 0.5753 0.5874
						303 321 342 357 423	24.958 23.937 23.113 22.789 21.994	0.5982 0.8087 0.8228 0.8327 0.8493
						447 510 520 537 550	21.788 21.579 22.257 23.004 24.049	0.6785 0.6785 0.6848 0.6958 0.7045
						604 616 625 639 651	25.652 26.205 29.812 32.175 35.341	0.7144 0.7236 0.7311 0.7435 0.7550

Conversion Factor: CPS to IM/BF, sultiply by 0.001713.

ANTECEDEN	T CCMDIT	ICRS		F2I	NFALL			EUNCE	 E	
ANTECEDEN Eate F Bo-Day (ainfall icches)	Buncff (inches)	Date Mo-Day	Time of Tay	Intensity (in/br)	Acc. (inches)	Date Sc-Day	Time of Day	Bate (cfs)	Acc. (inches)
				EEFEOAEY						
							2-11	707	42.363 55.301 65.035 74.815 61.268	0.7758
								727	55.301	0. 8007
								741 755	65.035	0.8247
								é 10	€1.2€8	0.8861
								825	£7.102	0.9221
								842 903	69.760 69.909	1.0189
								923	£7.102 £6.230	1.0654
								939 95 0	84.219 84.077 84.533	1.1066 1.1350
								959	84.533 87.541	1.1567
								1021	51.262	1.2115
								1035	96.668	1.2454
								1048 1056	102.969 109.399	1.2864
								1104	124.907 133.125	1.3375
									149.247	
								1135	158.136	1.4625
								1143 1158	165.429 165.714	1.4994
								1216	160.353	1.6541
								1228	153.506	1-7079
								1240 1249	143.797 140.001	1.7553
								1302	126.981 103.466	1. 6446
								1351	90.659 64.215	1.5572
								1404	64.219 76.259 67.415	2.0169
								1434	61.022	2.0756
								1448	55.614 49.127 44.801 39.458 34.526	2.0989
								1505 1515	49.127	2.1243
								1538 1601	39.456	2.1655
								1620 1641	30.607 27.643 25.477 24.612 23.004	2.2079
								1655 1701	25.477	2.2360
								17 14	23.004	2.2491
								1734	20.715	2.2616
								1755 1825	16.693 15.816	2.2734
								1900	20.715 16.693 15.816 13.612 12.140	2.3032
								1959 2029	10.729 5.612	2.3236 2.3323
								2100	5.612 E.6E2	
								2130 2159	7.833 7.177	2.3474 2.3536
								2249	6.068	2.3631
								2320 2400	5.602 5.092	2.3882 2.3744
							2-12	39	4.602	2.379€
								52	4.569	2.3815
								107 150	4.354 3.955	2.3834 2.3865
								230	3.672	2.3928 2.3980
								322 409	3.27E 2.9E3	2.4022
								500	2.766	2.4064
								600	2.525	2.4105



42.002- 5

BIESEL (WACC), TEXAS WATERSHED D

LCCATION: BcLebran Co., Texas; 14 mi. ESE of Waco; Frazos Fiver Basin. Lat. 31 deg. 30 min. 36 sec. B.; Iong. 96 deg. 53 min. 22 sec. W.

ABEA: 1110.00 acres 1.73 sg. miles

BC	MIBI	A beecie	ITATICE	ANE FUNC.	FF IKCEE	s) 			Blesel (W	ACC), I	XAS W.	ATEBSBE	Г Г	. -	
		Jan	P∈b	gar.	åpr	Bay	Jun	Jal	₽0g	S€ F	Oct	Bov	Dec		lso114
1977	P Q	2.25 0.225	4.32 3.132	3.94 1.071	4.91 1.271	0.71 0.000	1.01	9.04 0.0	3.70 0.0	2.15 0.0	1.54	3.12 0.000	0-22	2	24.95 5.699
VA AF	P Q	2.00	2.68 0.693	2.34 0.658	4.66 1.114	3.85 3.972	3.22 0.594	1.69 0.248	2.42 0.177	3.38 0.322	3.30 0.580	2.91 0.493	2.32 0.57		3 4. 37 6.923
	A 10 10	Baxi Disch	 B∪B arg∈	1 Bour	2	Bcors	aximom 6 Bc	Volume f	CFF inch cr Select 12 Bonrs	ed Time	Int∈r⊽a Day	1 2 Ca	 уs	8	Cays
1977	A 8 8	Baxi	arge Bate	1 Bour Date Vc	2 1. Date	Bcnrs Vol.	aximum 6 Bc Date	Volume f incs Vol. D	cr Select	ed Time 1 Date	Interva Day Vcl.	l 2 Ca Cat∈	ys Vol.	8 Dat∈	Vol.
1977	A 8 8	Baxi Disch Date	arge Bate	1 Bour Date Vc	2 l. Date 366 2-11	Bcbrs Vol. 0.664	aximum 6 Bc Date 	Volume f incs Vol. D	cr Select 12 Bonrs ate Vol.	ed Time 1 Date	Interva Day Vcl.	l 2 Ca Cat∈	ys Vol.	8 Dat∈	Vol.

Watershed Conditions: 66% pasture; 2% row grain sorghum; 20% fall planted oats; 2% grawel and pawed roads; 10% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. Baps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Bisc. Pub. 945, p. 42.4-6.
Precipitation: Records began Dec. 1537. Data from Thiessen weighted method using rain gages 5, 14, 20, and 26A. Eunoff: Records began Dec. 1537. Station not in operation July 1593 to Barch 1, 1549.
Long-Term Precipitation: Maticnal Weather Service records at Waco, Texas.

				(INCHES)			91121	r (Macc),	TEXAS	PATERSHER	. D	
l Eay	Jan	Peb	Bar	Apr	Ľay	Jan	Jul	Ang	Sep	Oct	Bov	D∈c
	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.C	0.0	0.0	0.34	0.0
	0.13	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
	0.29	0.11	1.39	0.0	0.0	0-0	0-0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.24	0.0	0.0	0-0	0-0	0.0	0-0	0-0	0.0
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0
	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	1.83	0.0
10	0.0	1.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0
11	0.0	2.10	0.13	0.0	0.0	0.34	0.0	0.0	0.0	0.02	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0 I	0.0	0.0	0.0
13	0.€5	0.0	0.0	0.0	0.0	0.29	0.0	0.0	1.62	0.0	0.0	0.09
14	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.30	0.0	0.0	0.0	0.0
1 15	0.0	0.0	0.0	2.09	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.92	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0
1 19	0.0	0.0	0.0	0.03	0.04	0.0	0.0	0.0	0 - 0	0.0	0-0	0.0
20	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.33	0.0	0.0
22	0.09	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0 I	0.0	0.28	0.0	0.0
	0.13	0.23	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0-0	0.0	0.05	9.0
25	0.0	0.0	0.0	0.0	0.0	0.0	C-0	0.06	0.0	0.0	0.0	0.0
2 8	0.0	0.08	1.34	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.02	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.82	0.13
	0.91		0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0
31	0.0		0.0		0 . I3		0.0	0.0		0.0		0.0
TCTAI	2.29	4.32	3.94	4.51	0.71	1.01	0.04	0.70	2.15	1.54	3.12	0.22
SIA AV	2.00	2.68	2.34	4.06	3.65	3.22	1.85	2.42	3.38	3.30	2.91	2.32

Air Temperature: See table for Watershed C, p. 42.002-1. Gaging: Thiesser weighted average of rain gages 5, 14, 20, and 26A. Station Averages: 33 yr beginning 1937 (part-year records not included). Station not in operation July 1943 to Barch 1949.

Cooperative Besearch Project of OSDA and Texas Agricultural Experiment Station

157	7	BEAN DAIL	Y CISCHABO	GE (CES)			FIEST	I (SECC)	, IPXAS	WATERSHE	I I	
Day	"Jan	F∈b	Bar	Apr	gay	Jur	Jul	λυg	Seţ	Cct	3C¥	L€¢
1	0.00	1.38	0.3	0.01	0.00		0.0	0.0	0.0		0.6	0.0
2	0.02	1.02	0.0	J.02	U.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.02	7.67	14.81	0.01	0.0	0.0	0.3	0.0	0.6	9.0	0.0	0.0
4	0.02	1.08	1.37	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.01	0.31	0.48	r 6.0	0.0	0.0	0.0	0.0	0.0	0.0	U . C	0.0
6	0.01	0.13	9.98	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.02	0.07	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.)5	0.02	3.3	0.0	0.0	0.)	0.0	0.0	ŭ.O	0.01	G. O
ç	0.02	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.01	20.13	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
11	0.01	110.20	0.32	0.0	C.0	0.0	0.0	0.0	J. 0	0.0	0.C	0.0
12	0.02	2.97	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	2.83	0.57	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	1.65	0.21	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.43	9.00	0.3	5.45	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
16	0.16	0.05	0.3	E6.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.08	0.03	0.0	2.53	0.0	0.0	0.0	0.0	0.0	0.0	0_0	0.0
16	0.06	0.02	0.3	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.04	0.01	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.03	0.00	0.0	11.56	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
21	0.02	0.03	9.0	2.21	0.0	0.0	0.0	0.0	v_0	4.0	0.0	0.0
22	0.02	0.00	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	9.08	J_0 3	9.9	0.06	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.05	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.03	0.00	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.03	0.01	2.48	0.00	v.0	0.0	0.0	0.0	J.0	0.0	0.0	0.0
27	0.03	0.00	21.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.02	0.0	€. 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.01		0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	1.79		0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	2.94		0.02		0.0		0.0	0.0		0.0		0.0
EAB	0.3378	5.2166	1.6113	1.9761	0.0001	0.0	0.0	0.0	0.0	0.0	0.0003	0.0
	0.225		1-071	1.271				0.0	0.0			0.0
IA AV	0.495		0.858	1.114		0.554	0.246		0.322			

Station Averages: 33 yr beginning 1937 (pert-year records not included). Station not in operation July 1943 to Barch 1949. Conversion Factor: CFS to IN/CAY, unltiply by 0.021443.

77 SELECTED	BUBOPF EVENT					(EBCC),	TREAS WA		
ABTRCECRNT CC			EA1				50 % C F		
[at∈ Bainfa	ll Boncff	Dat∈	lin∈	Intensity	Acc.	ſat∈	Time	Bat€	Acc.
Fo-Day (inche									(inches)
		EVE	NI CP FEER	DAEY 9 -	13, 1977				
EG 2000 1	4		EG 0000	14					
2-10 0.0		2-10	400	0.0	0.0	2- 5	652	0.035	0.0
2- 5	0.000		5 15	0.0240	0.03		1604	0.030	0.0002
			600	0.0667	0.06		2058	0.028	0.0003
			645	0.0	0.08		2400	0.029	0.0004
			710	0.0287		2-10	253	0.029	0.0005
WATERSHED CCBCITL	CHS:								
E% pasture: 2% ro	grain		745	0.0400	0.11		6 19	0.044	0.0006
orghom: 20% fell			745 800	0.1600	0.15		843	0.061	0.0007
ats: 2% gravel an			300	0.0	0.15		1007	0.060	0.0006
oads: 10% other.			1000	0.0	0.15		1058	0.129	0.0009
0% of other is Jo			1030	0.0600			1145	0.181	0.0010
rass and weeds in									
ation reserve, ne			1100	0.0600	0.22		12 19	0-213	0-0011
illed nor grazed.			1145	0.0933	0.29		1259	0.204	0.0012
			1230	0.0533	0.33		1314	0.273	0.0013
			1255	0.0960	0.27		1235	0.355	0.0019
			1530	0.1029	0.43		1349	0.427	0.6014
							,		
			1400	0.0800	0-47		1357	0.481	0.0015
			1500	0.0200	0.45		1911	0.650	0.0018
			1800	0.0100	6.50		1426	E38.0	0.0018
			1634	0.0353	0.52		1445	1.015	0.0021
			1654	0.3000	0.82		1528	1.242	0.0028
			1007	000			1340	10076	
			1725	0.1548	6.70		1600	1.426	0.0034
			1759	0.1588	0.79		1622	1.693	0.0039
			1635	0.0500	0.82		1636	2.055	0.0043
			1845	0.4200	0.69		1650	2.607	0.0048
			1514	0.0828	0.53		1706	3.376	0.0055
			1314	0.0020			,,,,,	3.370	
			1945	0.1742	1.02		1723	4.256	0.0065
			1959	0.0	1.02		1792	5.579	0.0079
			2035	0.1500	1.11		1758	7.518	6.0094
			20 44	0.1500			1808	5.344	0.0107
			2054	0.4800	1.23		1819		0.0124
			2004	0.400	1025		1013	1 10 0 14	0.0124

Conversion Factor: CPS to 18/8F, anltiply by 0.000893.

ANTECECENT CONDITIONS		FAII	NFALL			FUNCE	F	
ANTECEDENT CONDITIONS Tate Rainfall Runcff Bo-Day (irches) (inches)	Date Mo-Day	lis€ of Cay	Intensity (in/hr)	Acc. (inches)	Eat∈ Bc-Day	Ti∎∈ of Cay	hate (cfs)	Acc. (inches)
		FFEBUARY						
	2-10	2245 2335	0.1125 0.1695 0.0387 0.0400 0.6120			1828 1836 1845 1857 1914	14.428 17.677 20.362 24.076 25.189	0.0141 0.0161 0.0186 0.0226 0.0293
	2-11		0.0720 0.0 0.0828 0.0 0.0778			1931 1948 2008 2026 2045	37.564 45.419 54.402 55.858 65.089	0.0378 0.0483 0.0631 0.0784 0.0961
		359 459 514 545 609	0.0369 0.0300 0.2600 0.0568 0.0750	1.56 1.59 1.66 1.71 1.74		2143 2156 2207	72.053 85.649 102.595 121.056 135.471	0.1651 0.16€€
		639 645 704 750 752	0.2400 0.6000 0.5600 0.2308 0.2727	1.86 1.96 2.10 2.20 2.30		2231 2250 2311	142.715 144.574 140.571 131.961 127.959	0.25€3 0.296€ 0.3412
			0.1737 0.0857 0.4380 0.4000 0.2200		2-11	2349 2400 40 54 103	119.445 115.232 91.960 84.632 60.661	0.4129 0.4321 0.4938 0.5122 0.5233
		1044 1054 1114 1134 1200	0.4400 1.2000 0.3600 0.2700 0.1646	2.97 3.17 3.29 3.38 3.46		123 158 235 301 338	71.384 59.582 51.352 47.543 44.205	0.€106
		1229	0.1448	3.53		412 458 527 552 616	43.608 42.433 43.253 45.541 50.947	0.7067 0.7252 0.7418
						643 703 716 736 748	63.627 80.466 97.048 134.292 171.279	0.7820 0.8035 0.8207 0.8551 0.8824
						759 809 818 832 846	196.977 219.519 229.729 234.493 241.272	0-9126 0-9438 0-9737 1-0221 1-0717
						856 901 903 910 913	239.223 236.849 238.543 235.164 232.153	1.1075 1.1252 1.1323 1.1570 1.1674
						923 934 944 954 1004	221.707 214.767 211.362 211.362 216.215	1.2012 1.2369 1.2667 1.3001
						1015 1022 1035 1051 1105	223.028 237.865 260.292 286.115 309.748	1.3683 1.3923 1.4405 1.5056 1.5681
						1119 1129 1136 1143 1151	341.297 375.135 402.332 426.248 436.205	1.6360 1.6693 1.7299 1.7730 1.8244
						1159 1213 1224 1232 1239	434.094 405.830 377.509 356.552 335.156	1.8762 1.9638 2.0280 2.0717 2.1077
						1249 1259 1308 1318	325.241 317.635 289.677 266.501	2.1569 2.2048 2.2455 2.2869

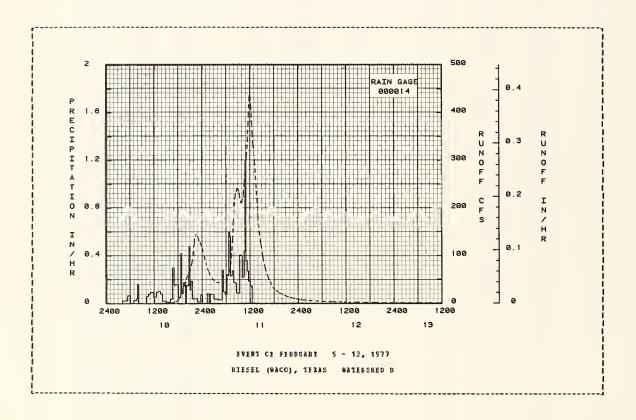
Conversion Factor: CFS to IN/PB, multiply by 0.000853.

								FRACI		
late Po-Day	EB1 CCBDIT Bainfall [inches]	Functi (inches)	Dat∈ Bo-Dav	Time of Cay	Intensity (in/br)	icc.	Date ≛o-Day	Time of tay	Fate (cfs)	Acc.
								-		
			EARMI CE	FEEROAFT	s - 13,	1577 (CC)	TIBUEL)			
							2-11	1332	242.301	2.3396
								1402	210.518 173.793 149.948	2.4315
								1418 1435	149.548	2.4701
								1506	115.232 100.488 88.550	2.5586
								1331	76.732 67.416	2.5556
								1559		
								16 18 16 39	58.492 50.947 45.174 39.718	2.8414
								1659	45.174	2.6726
								1719 1744	32.638	2.8989
								1809	25.388	2.7105
								1630 1859	28.943 23.678	2.7302
								1919 1930	29.388 28.943 23.678 21.973 20.975	2.7370
								2038	19.812 18.369 16.829 15.266 14.272	2.7517
								2057	15. 286	2.7640
								2138 2201	13.328 12.017 10.532 10.423 5.882	2.7727
								2253 2252	10.932	2.7825
								2332	9.120 8.819 8.525 8.035 7.688	2.7914
								2400	8.525	2.7951
							2-12	21 42	8.035 7.688	2.7578
								55	7.375	2.8016
								114 200	7.375 7.050 6.282 5.715	2-6036
								239	5.715	2.8117
								325		2.8158
								419 509	4.815 4.351 3.951	2.8229
								559 649	3.951 3.620	2.8260 2.8288
								740		2.8315
								822		2.8335 2.8343
								840 930	2.878	2.8366
								1011 1051		2.8398 2.8398
								1130	2.458	2.8413
								1159 1241	2.345	2.8423
								1306 1410		2.6448
								1520 1628	1.80£ 1.623	2.8485
								1730 1830	1.519 1.392	2.8517 2.8530
								2009	1.229	2.8545
								2104 2213	1.158	2.8559
								2320 2400	0.988	2.6581 2.8588
							2-13	29	0.907	2.8590
								56	0.902	2.8594
								139 240	0.867 0.818	2.6600 2.6607
								339 430	0.778	2.8614 2.8620
								559	0.652	2.8630
								659	0.656	2.8838
								8 00 939	0.622 0.592	2.6641

Conversion Factor: CFS to IM/BF, multiply by 0.000852.

1977	SFLECTED BUNG	OFF FVERT				FIRSEL	(EACC),	TERAS 6	TIFSBEC C	
ANG	FCFFFFT CCRDI	TICES		FA	IBFALI			FUBCI	FF	
l Eat Ec−D		Funcif (inches)	Dat∈ Mo-Day	Time of Cay	Intensity (in/hr)	Acc. (inches)	Dat∈ Ec-Day	Time of Cay	⊩ate cfs)	Acc. (inches)
			EVENT CE	FFEFUAFY	9 - 13,	1977 (CC)	TINUFC)			
					·		2-13	1200	0.540	2.8662

Conversion Factor: CPS to IN/HF, multiply by 0.000893.



42.003- 5

ICCATICE: &clentan and Falls Counties, Texas; 16 mi. S.B. of Eaco; Frazos Biver Basin. Tat. 31 deg. 26 min. 55 sec. N.; Long: 56 deg. 52 min. 06 sec. E.

AREA: 4360.00 acres 6.84 sg. miles

					P (INCEE:					(FECO),		ATESSHE		
		Jan	F∈b	čar	Apr	tay	Jun	Jul	≱ug	S€F	Oct	N C V	D∈c	Annual
1977	F Q	2.22 0.248	3.92 2.215	3.65 0.606	4.83	0.81	1.41	0.07 0.0	0.56 0.0	1.90 0.0	1.35 v.0	3.0€ 0.0	0.22	23.62 4.207
VA AF	P Q	2.14 0.887	2.72 J.795	2.33 0.701	3.86 2.815	3.55 0.719	3.77 0.877	2.14 3.267	2.67 0.14		3.48 0.484	2.93 0.535	2.51 0.615	35.67 6.970
	ANNI	IKES IAC	PR DISC	BARCE (5)	APL THE	BATTADA	DOT THE	C OF En	LCEE 15	neheck Ec	T CETTERRE	D STRE	TERRETATE	
		ixs5					axious	Vclume	fcr Sel	ected li	 ∈ Int∈rva	1		
			nn arge	1 Hour Date Vol	2 E		aximum 6 Ro	Vclume urs	fcr Sel	ected lim		1 2 fa	ys (E Days
1977		ře x i Disch	ine irge Sate	1 Hour Date Vol	2 E L. Date	curs Vol.	aximus 6 Rc Date	Vclume urs Vol.	fcr Sel 12 Hou Date V	ected lim	e Interva 1 Day e Vcl.	l 2 Ca Cate	ys (te Vcl.
1977		řexi Disch Date	ine irge Sate	1 Hour Date Vol	2 E L. Date	Vol.	aximum 6 Rc Date	Vclume urs Vol.	fcr Sel 12 Hou Date V	ected Timits cl. Dat	e Interva 1 Day e Vcl.	l 2 Ca Cate	ys (te Vcl.

Patershed Conditions: 46% pastnre; 6% cotton; 2% corn; 17% fall planted small grain, largely cats; 13% sorghum;
2% gravel and paved roads; 12% other. Approximately 90% of other is Johnsongrass and weeds in corservation
reserve, but neither tilled nor grazed.

Baps: Topographic/Bydrologic - Bydrologic Data for Emperimental Agricultural Watersheds in the United States, 155659, USDA disc. Pah. 945, p. 42.4-6.

Frecipitation: Fecords began Jan. 1538. Cata from Thiesser weighted method using rain gages 5, 14, 20, 26A, 30A,
42A, 46A, 56A, 65A, 70, 74A, 64A, and 69.

Ennoff: Secords began 1538. Station not in operation July 1943 to July 1, 1957.

Long-Term Erecipitation: Mational Weather Service records at Waco, Texas.

1977	D.	AILY PREC	IEITATICE	(IDCHES)			EIESE	I (WACC)	, TERAS	WATERSHE	C G	
[[ay	Jan	F∈b	čar	yFr	₽a y	Jnn	Jnl	Aug	Sep	Cct	Nc v	ľ€C
1 1 2 1 3 1 4 5	0.0 0.15 0.29 0.0	0.33 0.07 0.0 0.0	0.0 0.0 1.26 0.0	0.0 0.0 0.0 0.18 0.0	0.0 0.0 0.0 0.0	0.10 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 9.0	0.36 0.0 0.0 0.0	0.0 0.0 0.0 0.0
6 7 8 9	0.07 0.0 0.01 0.0	0.0 0.0 0.0 0.0 1.31	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 1 0.0 0.0	0.0 0.6 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.02 0.11 0.14 0.20 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 1.60	0.0 0.0 0.0 0.0
11 12 12 13 14	0.0 0.0 0.70 0.0	1.97 0.0 0.0 0.0	0.18 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 2.20	0.0 0.0 0.0 0.0	0.18 0.16 0.29 0.07 0.46	0.0 0.0 0.0 0.0	0.0 0.0 0.07 0.19	0.0 0.01 1.42 0.0	0.03 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.07 0.0
16 17 18 1 18 1 20	0.0 0.0 0.0 3.0	0.3 0.3 0.3 0.3	0.0 0.0 0.0 0.0	0.84 0.0 0.08 0.02 0.98	0.04 0.0 0.0 0.03 0.0 T	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 1.0	0.0 0.0 0.16 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.0 0.08 0.08 0.0	0.0 0.) 0.16 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.30 0.0 0.0 0.0	0.0 0.65 0.10 0.0	0.0 0.0 0.0 0.0	0.0 0.03 0.0 0.04 0.02	0.0 0.0 0.0 0.0	0.18 0.27 0.0 0.0	0.0 0.0 0.0 0.07	0.0 0.0 0.0 0.0
2 E 2 7 2 2 B 2 2 S 3 0 3 1	0.0 0.0 3.3 7.0 0.60 3.0	0.08	1.27 0.94 0.0 0.0 0.0	0.0 0.0 0.01 0.0 0.52	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.03 0.03 0.03 0.01 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.75 0.08	0.0 0.0 0.0 0.15 0.0
TOTAL STA AV	2.22 2.14	3.92 2.72	2.65 2.33	4.83 3.86	0.£1 3.£5	1.41 3.77	0.07	0.58	1.90 3.56	1.35 2.48	3.06 2.53	0.22 2.51

Air Temperatures: See table for Watershed C, p. 42.002-1.
Gaging: Thiesset weighted average of rain gages 5, 14, 20, 26A, 30A, 42A, 46A, 56A, 65A, 70, 74A, 64A, and 69.
Station Averages: 25 yr beginning Jan. 1938 (part-year records not included). Station not in operation July 1543 to July 1, 1957.

Cooperative Research Project of OSDA and Texas Agricultural Experiment Station

42.004- 1

197	7	MEAN DAII	Y TISCHAR	GE (CFS)			EIESE	I (WACC)	, TEXAS	\$ 2TEFSHEI	. G	
Day	Jan	F∈b	Mar	A F I	May	Jut	Jtl	Дп9	Sep	Cct	Ncv	Lec
1	0.0€	4.98	0.07	0.21	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	n_44	2.22	0.36	0.27	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.87	18.27	24.43	0.15	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.76	4.77	7.36	0.15	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.44	1.93	1.52	0.05	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ϵ	0.33	0.90	0.66	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.30	0.54	0.35	0.01	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.23	0.40	0.27	0.01	0.00	0.0	0.0	0.0	0.0	0.0	0.6	0.0
ç	0.19	0.34	0.23	0.00	0.00	0.0	0.0	0.0	0_0	0.0	0.0	0.0
10	0.09	25.62	J. 21	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	v. 10	321.84	0.38	0.0	0.0	U.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.15	15.81	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	12.77	3.98	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	U - 0	0.0
14	7.56	1.87	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	2.21	1.00	0.08	20.32	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
16	0.98	0.62	0.36	120.17	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
17	0.46	0.47	0.06	12.10	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
18	0.32	0.37	0.05	2.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.24	0.29	0.03	1.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.22	0.23	0.02	38.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
21	0.21	0.20	0.01	8.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.20	0.21	0.30	1.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.59	0.24	0.J T	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.52	0.14	0.00	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.32	0.14	0.02	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.24	0.13	5.84	0.05	0.0	J.0	0.0	0.0	0.0	0.0	0.6	0.0
27	0.21	0.09	40.90	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.14	0.07	25.14	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08	5.07	2.69	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	4.77		9.77	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	5.31		0.28	J. 15	0.0		0.0	0.0	0.0	0.0		0.0
EAN	1.475	14.556	3.610	6.947	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.248	2.215	0.608	1.133	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.687	0.799	0.701	0.815	0.715	0.877	0.267	0.142	0.328	0.484	0.535	0.615

Station Averages: 25 yr period beginning Jan. 1938 (part-year records not included). Station not in operation July 1943 to July 1, 1957.
Conversion Factor: CPS to IN/DAY, unltiply ty 0.005434.

BVENT OF FEEDURY 10 - 13, FG 00065A	ESEI (WACC), TEXAS WATER BUNCEP	
EVENT OF FEBRUARY 10 - 13, FG 00065A 2-10 0.0 0.000 2-10 523 0.0 0. 628 0.0 0. 723 0.0533 0. 723 0.0600 0. 723 0.0600 0. 8 pastnre; 69 cotton; 853 0.0170 0. 8 ccrn; 17% fell planted 953 0.0 0. 10d paved roads; 12% other. 1053 0.0514 0. 10prex. 50% of other is John- 10sq rase and weeds in conser- 1210 0.0600 0. 123 0.1040 0. 124 0.0770 0. 125 0.1040 0. 125 0.1040 0. 125 0.1040 0. 125 0.00	c. Dat∈ Time F	at∈ Acc.
FG 00065A 2-10 3.0 3.000 2-10 523 0.0 0. 543 0.2100 0. 648 0.0 0. 723 0.0533 0. 753 0.0600 0. 724 0.0533 0. 753 0.0600 0. 8ATIESPED CONTITIONS: 8% pastnre; 6% cotton; 853 0.0170 0. 8% corn; 17% fell planted 953 0.0 0. ats; 12% sorghin; 2% gravel 1018 9.0480 0. nd paved roads; 12% other. 1053 0.0514 0. pprox. 50% of other is John 1153 0.0514 0. cngrass and weeds in conser- attion reserve, neither 1223 0.0600 0. 1153 0.0774 0. 1254 0.0774 0. 1253 0.1040 0. 1353 0.0400 0. 1453 0.1000 0. 1553 0.0000 0. 1766 0.1029 0. 1776 0.1029 0. 1778 0.2160 0. 1890 0.1742 0. 1909 0.1742 0. 1938 0.1034 0. 1958 0.2000 0.	b∈s) Mo-Cay of Cay (cfs) (inches)
2-10	1577	
543 0.2100 0.63 0.0510 0.63 0.0533 0.633 0.0534 0.0534 0.0		
### 628 0.0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0 338
723 0.0533 0. WATERSPED COBTITIONS: #EF pastnre; 69 cotton; 28 corn; 175 fell planted		0.373 0.0001
######################################		0.413 0.0002
######################################		0.473 0.0004
### Pastnre; 63 cotton; 2% ccrn; 17% fell planted	14 1114	0.595 0.0005
2% cCrn; 17% fell planted 953 0.0 0. aats; 12% sorghum; 2% gravel 1018 9.0480 0. and paved toads; 12% other. 1053 0.0514 0. Approx. 50% of other is John- 1153 0.0700 0. songrass and weeds in conservation reserve, neither 1223 0.0660 0. tilled nor grazed. 1254 0.0774 0. 1253 0.1448 0. 1353 0.0400 0. 1453 0.0000 0. 1453 0.1000 0. 1753 0.2160 0. 1753 0.0160 0.	45 4000	
oats; 13% sorghum; 2% gravel 1018 9.0480 0. Approx. 50% of other is John- songrass and weeds in conservation reserve, neither 1223 0.0600 0. 1524 0.0774 0. 1523 0.1440 0. 1323 0.0400 0. 1452 0.0103 0. 1453 0.000 0. 1453 0.1000 0. 1653 0.1000 0. 1726 0.1029 0. 1725 0.2160 0. 1828 0.0667 0. 1829 0.1742 0. 1938 0.1034 0. 1958 0.1034 0. 1958 0.1034 0. 1958 0.1034 0. 1958 0.1034 0. 1958 0.1034 0.		0.795 0.0006
and paved roads; 12% other. Approx. SO% of other is John- scngrass and weeds in conser- vation reserve, neither 1223 0.0600 0. 1254 0.0774 0. 1253 0.1448 0. 1253 0.0400 0. 1453 0.0000 0. 1453 0.0100 0. 1553 0.0000 0. 1753 0.2160 0.		1.063 0.0008
Approx. 50% of other is Johnsengers and weeds in consersualization reserve, neither 1223 0.0600 0.1254 0.0774 0.1353 0.1040 0.1353 0.0400 0.1453 0.0103 0.1454 0.0775 0.1003 0.1453 0.0103 0.1453 0.1003 0.1453 0.1003 0.10		1.345 0.0009
scingrass and weeds in conservation reserve, neither 1223 0.0600 0.0774 0.177		1.823 0.0012 2.475 0.0015
vation reserve, neither 1223 0.0600 0. tilled nor grazed. 1254 0.0774 0. 1253 0.1040 0. 1353 0.0000 0. 1453 0.0100 0. 1653 0.1000 0. 1653 0.1000 0. 1726 0.1029 0. 1753 0.2160 0. 1858 0.1034 0. 1908 0.1742 0. 1938 0.1034 0. 1958 0.2000 0. 2028 0.1029 0.	21 1437	2.4/5 0.0015
tilled nor grazed. 1254	30 1524	3.932 0.0020
1523 0.1946 0. 1353 0.0900 0. 1452 0.0103 0. 1453 0.000 0. 1653 0.1000 0. 1726 0.1029 0. 1753 0.2160 0. 1628 0.0667 0. 1909 0.1742 0. 1938 0.1034 0. 1958 0.2000 0. 2028 0.1029 0.		5.285 0.0030
1353		6.714 0.0030
1953		9.003 0.0051
1553 0.0 0. 1653 0.1000 0. 1726 0.1029 0. 1753 0.2160 0. 1828 0.0667 0. 1909 0.1742 0. 1938 0.1034 0. 1953 0.2000 0. 2028 0.1029 0.		3.448 0.0063
1653 0.1000 0. 1726 0.1029 0. 1753 0.2160 0. 1638 0.0667 0. 1909 0.1742 0. 1938 0.1034 0. 1953 0.2000 0. 2028 0.1029 0.	1010 1	3.446 0.0063
1653 0.1000 0. 1726 0.1029 0. 1753 0.2160 0. 1638 0.0667 0. 1909 0.1742 0. 1938 0.1034 0. 1953 0.2000 0. 2028 0.1029 0.	44 1828 1	7.900 0.0973
1726 0.1029 0. 1753 0.2160 0. 1628 0.667 0. 1905 0.1742 0. 1938 0.1034 0. 1953 0.2000 0. 2028 0.1029 0.		3.326 0.0092
1753 0.2160 0.163 0.0667 0.1909 0.1742 0.1938 0.1034 0.1953 0.2000 0.2028 0.1029 0.1029 0.1029 0.1029 0.1029 0.1029		0.294 0.0117
1638 0.0667 0. 1909 0.1742 0. 1938 0.1034 0. 1953 0.2000 0. 2028 0.1029 0.		3.306 0.0137
1905 0.1742 0. 1938 0.1034 0. 1953 0.2000 0. 2028 0.1029 0.		5.000 0.0161
1938 0.1034 0. 1953 0.2000 0. 2028 0.1029 0.	19 1932 -	3.000
1938 0.1034 0. 1953 0.2000 0. 2028 0.1029 0.	E3 20 16 4	0.000 0.0195
1953 0.2000 0. 2028 0.1029 0.		7.000 0.0233
2028 0.1029 0.		7.000 0.0266
		1.000 0.0292
2020 004000 10		7.000 0.0325
	2110	
2036 0.4000 1.	05 2130 10	2.000 0.0368
2043 0.6571 1.		0.000 0.0418
		2.000 0.0525
		0.000 0.0654
		0.000 0.0845

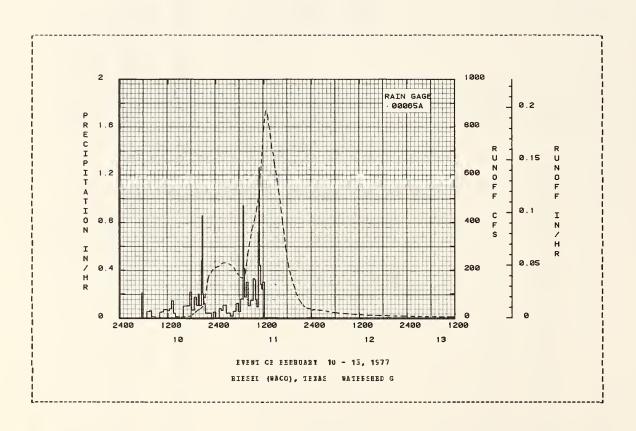
Conversion Factor: CPS to IN/RE, multiply by 0.0002264.

	ELECTED BUNC								TEFSHEE G	
ANTECE Eate Ec-Day	CENI CCNDII Fainfall (irches)	IICBS Suncff (inches)	Dat∈ Mo-£ay	Time of Cay	NFALI Intensity (in/br)	Acc. (inches)	Eat∈ Ec-Day	TURCE Time of Cay	Fate (cfs)	Acc. (inches)
			2-10			1977 (CC)		2310	205 000	0 10+5
			2-10	2323	0.0	1.31	2-10	2400	212.000	0.10 t5 0.13 88 0.1776 0.2158 0.25 90
			2-11	53	0.0486	1.34	2-11	138	230.000	0.1776
				153 238	0.0621 0.1067	1.41 1.49 1.53 1.54		313 350	227.000	0.3022 0.3336
				338 423	0.0480	1.53		432 455	210.060	0.3336 0.3678 0.3856 4.9066
				538 613	0.1200	1.64 1.67 1.77 1.88 1.99		549 6 1 6	180.000 170.000	0.4239 0.4417 0.4627 0.4867 0.4941
				651	0.1579	1.77		649 725	167.000 187.000	0.4627
				738	0.1750	2.06 2.21 2.26 2.37 2.48		754 813	245.000	0.5102 0.5293 0.5498 0.5776 0.5981
				838	0.1000	2.26		831	320.000	0.5458
				956	0.3200	2.56 2.61 2.64 2.78 2.97		939	409.998	0.6941 0.6710 0.7151 0.7444 0.7637
				1038	0.0500	2.64		1022	470.000	0.7151
				10 58	1.2600	2.97		1048	519.955	0.7637
									555.000	0.7880
				1128 1143	0.2400	3.88 3.15 3.21 3.36		1133	000.000	0.7880 0.8187 0.8647 0.8805
				1213	0.2000	3.20		1148	750.000	0.8053
								1203	805.000	0.9493
								1219	850.000 870.000	1.0512
								1302	845.000 815.000	1.1385
								1331	790.000	1.2273
								1405	765.000 710.000	1.3231
									680.000 855.000	
									630.000	
									600.000 575.000	
								1535	555.000	1.5390
									514.999	
								1612	480.000	1.6112
								1639	415.000	1.8586
									365.000	
								1717		1.7104
									275.000 245.000	
								1810	230.000	1.7655
								1819 1835	210.000	1.7730
								1847 1859	181.000 170.000	1.7937
								1917 1930	155.000 142.000	1.8127 1.8200
								1954 2007	120.000	1.8319
								2030	92.000	1.8461
								2050 2106	78.000 71.000	1.8525
								2115 2132	67.000 60.000	1.8593
								2155	52.000	1.8683
								2220 2246	48.000 41.000	1.8729 1.8771
								2349 2900	37.000 32.000	1.8857 1.8876
							2-12	2246	41.000 37.000	1.8771 1.8857

Conversion Factor: CPS to IB/BE, multiply by 0.0002264.

TECFLEBI CONDIT			EAI				FUNCE		
te Fainfall Day (irches)	Runcff (inches)			Intersity (in/hr)			Time of Cay	Fate (cfs)	Acc. (inches)
		FVERT CE	FEFEUAFY	10 - 13,	1977 (CCI	MIINUEC)			
						2-12	135	32.43€	1.6997
							244	30.016	1.907€
							339	27.634	1.9136
							421	25.184	1.9180
							516	22.395	1.9229
							700	19.072	1.9311
							915	16.111	1.9400
							1117	13.735	1.5465
							1418	11.062	1.9554
							1636	9.572	1.9607
							1940	7.865	1.9666
							2223	€.822	1.9713
							2400	6-257	1.9737
						2-13	430	5.176	1.9796
							6 19	4.71€	1.9€1€
							915	4.158	1.5846
							1155	3.7€2	1-9670

Conversion Factor: CPS to IN/BF, multiply by 0.0002264.



42.004- 4

LCCATICB: Falls Co., Texas; 19 mi. SE cf Waco; Erazos Fiver Basin. Tat. 31 deg. 27 min. 27 sec. B.; Long. 96 deg. 52 min. 48 sec. W.

AREA: 174.00 acres

5.0	BIBLE	FFECIF	TATION	AFE FUNCI	F (INCEE	S)			FIESE	L (WAC	C), 1	EXAS V	ATEFSB	2C %-1		
		Jan	F∈b	tar	Agr	t a y	Jun	Jnl	žug	9 5	€Ē	0ct	B C V	D€C		Attnal
1977	P C	2.4C 0.761	3.54 2.458	3.27 0.890	4.73 1.720	0.60 0.067	1.82 0.012	0.0	J_6		.71 -0	1.0€ 0.0	3.33 0.0	0.2		23.08 5.908
SIA AV	P Q	2.21 3.525	2.62 3.669	2.54	4.06	4.17 1.250	3.27 0.633	1.87	2.0		. €€ - 227	3.00 0.349	2.94			34.22 €.67€
	ARRU	Maxim Discha	D 11	BARGE (in			aximom	Volume	fcr Se	lected	line	Interva	1	INTERV		 Cays
		Dat∈ F	at€	Dat∈ Vol	. Dat∈	Vol.	Dat∈	Vol.	£at€	Vol.	Eat€	Vol.		Vcl.		Vcl.
1577		2-11 0	.317	2-11 0.2		0.490					2-10	2.101	2-10	2.207	2- €	2.261
						DEALEGES	FCR F	etice cr	12221	ī L						
		5- 1 4 1944		5- 1 2.9 1544	90 5- 1	5.570	5- 1 1944		5- 1 1944	€.520	5- 1 1944	7.050	4-30	9.200	4-25	11.060

1977	C.	AILY PBEC	IFIT ATICE	(INCHES)			FIES	EL (WACC)	, TERAS	WATERSHE	C W-1	
Lay	Jan	F∈b	∄ar) pr	Pay	Jnr	Jnl	A ng	Sep	Cct	Всv	E€C
1 1	0.0	0.0 0.26	0.0	0.0	0.0	0.04	0.0	0-0	0.0	0.0	0.43	0.0
j 3	0.34	0.05	1.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
j 4	0.0	0.0	0.0 1	0.14	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.)	0.0	0.0	0.G	0.0	0.0	0.0	0.0	0.0	6.6	0.0
. €	0.08	0.3	0.0	0.9	0 - G	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0
1 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0_0
1 E	0.03	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.14	0.0	0.0	0.0
1 10	0.0	0.0 1.55	0.0	0.0	0.0	0.0	0.0	0 - 0	0.28	0.0	1.83	0.0
1 10	0.0	1.00	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.72	0.0	0.0
į , 11	0.0	1.55	0.16	0.0	0.0	0.23	0.0	0.0	0.0	0.03	3.0	0.01
1 12	0.0	0.0	0.0	0.0	0.0	0.09	0 . C	0.0	0.0	0.0	0.0	0.0
1 13	0.95	0.0	0.C	0.0	0.0	0.25	0.0	0.0	1.29	0.0	0.0	0.06
14	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.10	0.0	0.0	0.0	0.0
1 15	0.0	0.0	0.0	2.32	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.C	0.0	0.0	0.0	0.0
1 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0-0	0.0	0.0	0.0
1 15	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.05	0.04	0.0	0.0	0.0 0.G6	0.0	0.0	0.0	0-0
i								0.00		0.0	0.0	0.0
1 21	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.07	0.0	0 - C
1 22	0.08	0.0	0.0	0.0	0.0	0.08	0.0	0.14	0.0	0.24	0.0	0.0
23	0.08	0-08	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0
1 24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0
2.5	0.0	0.7	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
26	0.0	0.05	1.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 27	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.81	0.15
1 30	0.69		0.0	0.51	0.0	0.0	0.0	0.C	0.0	0.0	0.05	0.0
1 21	0.0		0.0		0.17		0.0	0.0		0.0		0.0
14101	2.40	3.54	3.27	4.73	0.60	1.82	0.0	0.40	1.71	1.0€	3.33	0.22
I SIA AV	2.21	2.62	2.54	4.06	4.17	3.27	1.87	2.16	2.8€	3.00	2.94	2.51
L												

Air Temperatores: See table for Watershed C, p. 42.002-1.
Gaging: Thiesser weighted average of rain gages 75A, 85, W-2, b-2A, and W-5A.
Station Averages: 40 yr beginning 1937 (part-year records not included).

Cooperative Research Project of OSDA and Texas Agricultural Experiment Statics

Natershed Conditions: 12% scrohmm: 86% pastbre; 2% roads.
Baps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1963,
USEA Misc. Ent. 1160, p. 42.6-6 (revised).
Precipitation: Fecords began July 1937. Lata from Thiesser weighted method using raim gages 75A, 69, %-2, %-2A, and
W-5A.
Funoff: Records began July 1937.
Long-Term Precipitation: Wational Weather Service records at Waco, 1emas.

197	7	MEAN DAIL	Y DISCHAF	GE (CES)			FIES	EI (WACC)	, TEXAS	WATEFSHE	E W-1	
Day	Jan	P∈b	äar	Ъŗг	May		Jtl	Δug	Sep		NCV	Dec
1	0.032	0.082	0.025	0.038	0.055	0.008	0.0	0.0	0.0		0.0	0.0
2	0.983	0.128	0.027	0.039	0.029	ŭ.005	0.0	0.0	0.0	0.0	0_0	0.0
3	0.155	0.545	2.282	0.031	0.024	0.003	0.0	0.0	0.0	0.0	0.0	0.0
4	0.690	0.097	0.154	0.028	0.022	0.061	0.0	0.0	0.0	0.0	0.0	0.0
5	0.044	0.059	0.051	0.020	0.020	0.001	0.0	0.0	0.0	U.O	0.0	0.0
6	0.044	0.051	0.039	0.021	ŭ.019	0.001	0.0	0.0	0.0	0.0	0.0	0.0
7	0.042	0.048	0.038	0.019	0.020	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
6	0.040	0.047	0.035	0.016	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.036	0.047	0.037	0.019	0.018	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
10	0.031	3.355	0.043	0.017	0.017	0.0	0.0	6.0	U. O	0.0	0.0	0.0
11	0.037	12.592	0.966	0.016	0.016	0.002	0.0	0.0	0.0	0.0	0.0	0.0
12	0.046	0.200	0.032	0.017	0.013	0.002	0.0	0.0	0.0	0.0	0.0	0.0
13	2.950	0.684	0.029	0.019	0.012	0.067	0.0	0.0	0.0	0.0	0.0	0.0
14	0.263	0.059	0.031	0.019	0.013	0.002	0.0	0.0	0.0	0.0	0.0	0.0
15	0.080	0.044	0.029	3.634	0.014	0.040	6.0	0.0	0.0	C-0	0.0	0.0
16	0.048	0.043	0.025	6.089	0.013	0.006	0.0	0.0	0.0	9.0	0.0	0.0
17	C.046	0.042	0.029	0.231	0.011	0.002	0.0	0.0	0.0	0.0	0.0	0.0
18	0.042	0.046	0.326	0.058	0.911	0.001	0.0	0.0	0.0	0.0	0.0	0.0
19	0.043	0.036	0.023	0.037	0.016	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
20	0.046	0.032	0.022	1.725	0.015	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0
21	0.043	0.036	0.019	0.224	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.046	0.038	0.019	0.055	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.084	0.036	0.021	0.038	0.009	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
24	0.052	0.026	0.025	0.034	0.008	0.001	0.0	0.0	0.0	0.0	0.0	0.0
25	0.040	0.027	0.031	0.026	0.009	0.001	0.0	0.6	0.0	0.0	0.0	0.0
26	0.040	0.027	0.348	0.026	0.008	U.0 T	0.0	0.0	0.0	0.0	0.0	0.0
27	0.040	0.026	1.824	0.023	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.030	0.025	1.073	0.016	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.02€		0.056	0.022	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.694		0.029	0.017	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.266		0-025		0.008		0.0	0.0		0-0		0.0
AN	0.1795	0.6416	0.2100	0.4191	0.0157	0.0028	0.0	0.0	0.0	0.0	0.0	0.0
CBES	U.761	2.458	0.890	1.720	0.067	0.012	0.0	0.0	0.0	0.0	0_0	0.0
A AV	0.525	0.669	0.742	1.067	1.250	0.633	0.165	0.086	0.227	0.349	0.434	0.5

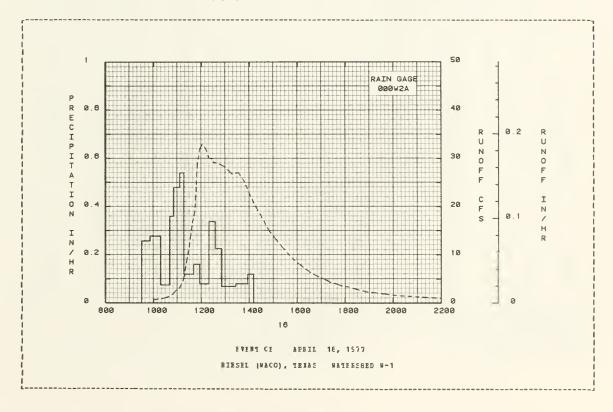
Ctation averages: 40 yr teginning 1537 (part-year records rot ircluded).

77	SELECTED RUN	OLE EAEMI						TENAS WAS	LEBEBEL W-	
ANTEC	EDENT CONDI	TICKS		F 3	TKFATT					
Dat∈	Bainfall	Runcff	Dat∈	Tise	Intersity	Acc.	Dat∈	Tine	Fate	Acc.
Mc-Day	(irches)	(inches)	Bo-Day	of Cay	(in/tr)	(inches)	Bc-Day	of Day	(cfs)	(inches)
			**	15 FF C5	1.F.T.T. 4.6	1677				
			E.		AFBII 16	, 1977				
4-16	BG OCOW2A	0.407		FG 0001					0.745	
4-16	0.0	0.146	4-16	930	0.0	0.0	4-16		0.745	0.0
				951	0.2571	0.09		10 12	0.805	0.0007
				1017	0.2769			1027	1.010	0.0019
				1041	0.0750	0.24		1038	1.351	0.0032
BATETCHE	D CONDITIONS			1051	0.3600	0.30		1050	1.957	0.0051
	um: 66% past			1106	0.4800	0.42		1057	2.667	0.0066
	ass, good co			1116	0.5400	0.51		1105	3.131	0.0086
	y grazed: 2%			1141	0.1200	0.56		1110	3.879	0.0105
	traight row			1156	0. 1600	0.60				0.0121
	ct terraced.			1219	0.0783	0.63		1114 1118	5.913	0.0141
				1235	0.3375	0.72		1121	7.548	0.0160
				1251	0.2250	0.76		1125	9.412	0.0193
				1326	0.0686	0.82		1130	11.779	0.0243
				1356	0.0600	0.86		1134	14.445	0.0293
				1411	0.1200	0.85		1138	16.747	0.0352
								1144	19.111	0.0454
								1146	22.397	0.0494
								1149	27.263	0.6564
								1151	29.055	0.0618
								1156	32.054	0.0763
								1202	32.885	0.0948
								1211	12.054	0.1226
								1218	30.061	0.1432
								1226	29.868	0.1660
								1232	29.026	0.1828
								1237	29.095	0.1966
								1259	28.202	0.2565
								1317	26.671	0.3034
								1332	27.064	0.3417
								1348	25.060	0.3813

Conversion Factor: CES to IB/BF, multiply by 0.005700.

									_	
ANTECECENT	CCMDII	1005	Date	E2:	INEALL	100	rat c	Time	Fatc.	Acc
Late Mai	rerect	(inches)	Po-hav	of Far	Intensity (in/hr)	(inches)	FC-Day	of Cav	Icfs)	(inches
(II		(100000)								
			EVENT	E AFE	IL 1€, 197	7 (CCB411	NOFC)			
							4-1€	1403	22.112	0.4149
								1417	19.779	
								1432	17.636	0.4694
								1449	17.636 15.028	0.495€
									13.290	
								1523	11.569	0.5367
									5.868	
								1554	E.603	
								1670	7.39€ 6.25€	0.5071
								1024	0.250	0.55/1
								1654	5.407	0.6082
								1709		0.6155
								1724	4.242	0.6221
								1739	3.940	0.6279
								1753	3.546	0.6329
								1801	3.441	0.6355
								1821	3.025	0.6417
								1635		0.6455
								1845		0.6460
								1857		0.6507
								1913	2.168	0.6541
								1933	1.946	
								2006	1.761 1.554	0.6670
								2028		0.6668
								2020	1.455	0.000
										0.6694
								2119	1.187 1.102	0.6733
								2225	0.930	0.6799
								2242		0.6814
								2302		0.6630
								2323		0.6847
								2339		0.6858
								2400		0.6873

Conversion Eactor: CES to IM/EE, multiply by 0.005700.



42.008- 3

FIESEI (WACC), TEXAS WATERSHEE W-6

LCCATICH: Falls Co., Texas; 19 mi. SE cf Waco; Erazos River Basin. Lat. 31 deg. 27 min. 24 sec. N.; lcmg. 96 deg. 53 min. 11 sec. R.

42.30 acr∈s AFPA:

BC	PIBL	Y PRECIP	NOIPAFI	ANT EUNCE	F (INCEE:	E)			SIESEL (W	ACC), TI	XAS W	ATERSBE	3I W-6		
		Jan	E∈b	₹ar	Apr .	Bay	Jun	Jul	Þτg	S€Į	Cct	Kcv	Ľ€C		Arrual
	F	2.72	3.95	3.60	5.33	0.72	2.06	0.06	0.56	1.61	1.11	3.70	0.2		25.62
1977	Q	0.237	2.137	0.364	1.412	0.003	0.0	0.6	0-6	6.0	0.0	0.6	0.0		4. 152
VA AF	Р	2.03	2.54	2.39	4.12	3.91	3.32	1.83	2.30	2.57	3.20	2.92	2.3	5 :	33.67
	Q	0.328	0.459	0.527	0.796	0.777	0.516	0.103	0-044	0.193	0.279	0.336	5 0.4	20	4.779
	ANN			HAFGE (is	o/br) AKC				CEE (inc)				J K TE F V	ALS	
	ANN	CAL HAXI Baxi Disch	 Eus		/br) AKC		aximum	Volume f	CFF (inc)	eo Time	Interva	1	INTERV		 Lays
	ANN	Baxi	 BuB arg∈		2 1	ecurs	aximum 6 Bc	Volume f	cr Select	€0 Time		1	 ays	8	Tays Vol.
1977	ANN	Maxi Disch	Bum arge Eate	1 Hour Date Vol	2 - Gate	Hours Vol.	aximum 6 Hc Cate	Volume f urs Vol. 0	cr Select 12 Bours	€0 Time 1 Late	Interva Cay Vol.	1 2 Da Eate	nys Vol.	8 Date	Vol.
1977	ANN	Baxi Disch Oate	Bum arge Eate	1 Hour Date Vol	2 - Cate 	Bcurs Vcl.	aximum 6 Hc Cate	Vclume f urs Vol. 0 1.474 2	cr Select 12 Bours ate Vol.	€0 Time 1 Late	Interva Cay Vol.	1 2 Da Eate	nys Vol.	8 Date	Vol.
1977	ANN	Baxi Disch Oate	Bum arge Eate	1 Hour Date Vol	2 - Cate 	Bcurs Vcl.	aximum 6 Hc Cate	Volume f urs Vol. 0	cr Select 12 Bours ate Vol.	€0 Time 1 Late	Interva Cay Vol.	1 2 Da Eate	nys Vol.	8 Date	Vol.
1977	ANN	Baxi Disch Oate	mum arge Eate 	1 Hour Date Vol	2 1 1. Cate 240 2-11	0.797	aximum 6 Hc Cate 2-11 POH FE	Volume f urs Vol. G 	cr Select 12 Bours ate Vol.	fo Time 1 Late 7 2-10	Interva Gay Vol. 1.977	1 2 Da Date 2-10	ys Vol. 2.019	8 : Date 2- 8	Vol.

Ratershed Conditions: 7% gravel and paved road; SIX pasture. Bodified conservation program since 1956.
Baps: Topographic/Bydrologic - Bydrologic lata for Experimental Agricultural Watersheds in the United States, 1962, USIA Bisc. Fut. 1164, p. 42.7-5 (revised).
Precipitation: Records began May 1953. Oata from Inherence weighted method using rain gages W-2, W-4, and W-5A.
Bundoff: Becords Legan May 1955. Station not in operation July 1943 to Jan. 1, 1946.
Long-Term Frecipitation: National Weather Service records at Wacc, Texas.

197	7 E	AILY PEEC	I FIT ATIC B	(INCHES)			EIES	EL (WACC)	, TEXAS	WATEESHE	r #-6	
Cay	Jan	P∈b	Bar	P Er	ž a y	Jut	Jol	, A v g	S∈p	Cct	bcv	Dec
1	0.0 0.15	0.0	0.0	0.0	0-0	0.03	0.0	0.0	0.0	0.0	0-44	0.0
2 3	0.15	0.28	1.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ű.	0.0	0.3	0.3	0.16	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0
<u> </u>	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.09	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	r 0.0	0-0	0.0	0.0	0.05	0.0	C-0	0.0	0.02	0.0	0.67	0-0
9 10	0.0 0.0	0.0 1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0 0.74	1.13 0.0	0.0
11	0.0	2.18	0.23	0.0	C. O	0.41	C.O		0.0		0.0	
12	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.04	0.0	0.0
13	1.06	0.0	0-0	0.0	0.0	0.32	6.0	0.0	1.33	0.0	0.0	0.0€
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	2.75	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0-0
17	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0_0	0.0	0.0	0.0	0.0
18	3.0	0.0	0.0	0.03	0.0	0.0	0-9	0.13	0.0	0.0	0.0	0.0
19 20	0.0 0.0	0.0	0.0	0.02 1.13	0.0 1 0.05	0.0	0.0	0.0 0.15	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.38	0.0	0.9	0.0	0.0	0.07	0.0	0.0
22	0.25	0.0	0.0	0.0	0.0	0.06	0.0	0.08	0.0	0.26	0.0	0.0
23	0.01	0.10	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0
25	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.06	1.06	0.0	0.0	0.0	0.06	0-0	0.0	0.0	0.0	0.0
27	0.0	0.3	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 29	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.79		0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.20
31	0.0		0.0	••55	0.24		0.0	0.0		0.0		0.0
IGTOL	2.72	3.95	3.60	5.33	0.72	2.06	0.06	0.50	1.61	1.11	I.70	0.26
STA AV	2.03	2.54	2.39	4.12	3.51	3.32	1.83	2.30	2.97	3.20	2.92	2.35

Air Temperatures: See table for Watershed C, p. 42.002-1.
Gaging: Thiessen weighted average of rain gages W-2, W-4, and W-5A.
Station Averages: 35 yr period beginning Bay 1939 (part-year records not included). Station not in operation July
1943 to Jan. 1, 1946.

Cooperative Besearch Project of 0508 and Texas Agricultural Experiment Station

197	77	SEAR DAIL	Y LISCHAR	GF (CFS)			BlES	FI (% LCC)	, TERAS	WATEFSHE	E 8-8	
Day	Jan	F∈b	Par	yer	Bay	Jur	Jul	Avg	S∈F	Cct	pca	Ĺ€C
1	0.303	5.034	0.018	0.002	0.902	0.C	9.0	0.3	0.0	0.0	0.0	0.0
2	0.008	0.012	C.011	0.002	0.001	0.3	0.0	0.0	0.0	0.0	0.0	0.0
3	0.013	C.028	0.201	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.004	0.006	0.013	0.0 7	0.0 T	0.0	0.0	0.0	0.0	0-0	0.0	0.0
<u>=</u>	0.002	0.004	0.010	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.002	0.004	0.009	0.0 T	r C.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.003	0.005	0.011	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
8	0.002	0.006	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
9	0.031	0.037	0.008	J.0 T		0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.002	0.360	0.309	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	9.002	3.211	0.036	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.3
12	0.002	0.031	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.288	0.013	0.004	0.0	0.0 1		3.3	0.0	0.0	0.0	0.0	0.0
14	0.018	0.008	3.008	0.0	0.3	0.0	0.0	0.0	0.6	0.0	0.0	0.0
1.5	0.003	0.036	0.009	0.805	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.002	0.036	0.009	1.410	0.0 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.002	0.006	0.008	0.011	0.0 1	0.0	0.0	0.0	J_0	0.0	0.0	0.0
18	0.001	0.007	0.004	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.002	0.308	0.002	0.002	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.002	0.006	0.001	0.241	r 0.0	0.0	9.3	0.0	3 - 0	0 - 0	0.0	0.0
21	0.002	0.007	0.001	0.011	0.0 1	0.0	0.3	0.0	0.0	0.0	0.0	0.0
22	0.002	0.009	0.0 T	0.003	0.0	6.0	8.0	0.0	0.0	0.0	0.0	9.0
23	0.004	0.004	0.0 7	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.001	0.006	0.001	0.032	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0
25	0.002	0.039	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 E	0.001	0.006	0.021	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.001	3.019	C. 205	0.302	0.0	0.0	u.J	3.0	0.0	0.0	0.0	0.0
28	0.001	0.009	0.068	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.004		0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	C.O	0.0
30	0.054		0.001	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.011		0.031		0.0		6.0	0.0	,	0.0		0.0
AB	9.0136	0.1356	0.0208	0.0836	0.0032	u.0	0.0	3.0	u.j	0.0	0.0	0.0
CBES			0.364	1.412			6.0	0.0	0.0		0.0	0.0
A 2 V		0.459	0.527	0.756			0.103	0.000	0.193			0.420

Station Averages: 35 yr beginning 1939 (part-year records not included). Station not in operation July 1943 to Jan. 1946. Conversion Factor: CPS to IN/DAY, multiply by 0.562687.

ARTECEDES CCEDIS				[NFAIL			FUNCE		
Eate Bainfall Bc-Day (irches)				Intersity (in/br)					Acc. (inches)
ac-pay (IICBes)									(INCRES)
		E 11 x 1	K# 67 E7F1		44 4633				
		EVE			11, 1577				
EG OCOOR4			IG 0000						
2-19 0.0	9.032	2-13	€34	0.0	4.0	2-16	1048	0.011	0.0
			705	0.1181	u.c∈		1156	0.021	0.0004
			745	0.0300	0.0E		1214	0.016	0.0006
			€50	0.0185	0.10		1239	0.023	C.0007
WATERSHED CONDITIONS:			950	0.0100	0.11		1248	0.020	8000.0
WATERSOIL CCALITICAS: 3% rasture, Permudadr	ass.		1020	0.1000	0.16		1314	0.033	0.4011
ocd cover, moderately			1110	0.0240	0.18		1334	0.048	0.6014
razed: 71 gravel read			1145	0.0523	0.24		1554	0.065	0.0019
races, in graves road			1240	0.0235	0.26		1915	0.083	0.0025
			1320	0.1200	0.24		1544	0.075	0.0034
			1350	0.0200	0.35		1519	0.083	0.0645
			1535	0.0114	0.37		1555	0.089	0.0057
			1830	0.0545	0-42		1636	0.073	0.0067
			18 50	0-2700	C. = 1		1659	0.152	0.0077
			1720	0.1000	0.58		1720	0.214	0.0092
			1735	0.2400	0.82		1744	0.350	0.0120
			18 20	0.0533	0.66		1814	0.531	0.0174
			1835	0.1600	0.70		1839	0.455	0.0225
			1905	0.1600	0.78		1849	0.509	6.0244
			1930	0.1680	0.85		1914	0.565	0.0257
			1224	*******				00302	
			1550	0.1260	0.ES		1930	0.676	0.0338
			2024	0.1588	0.98		1944	0.722	0.0374
			20 34	0.6600	1.09		2004	0.702	0.0429
			2049	0.2800	1.16		2021	0.644	0.0474
			2115	0.1848	1.24		2030	0.757	0.0455
			2220	0.0462	1.29		2041	1.055	0.0538
			2400	0.0462	1.34		2054	1.557	0.0536
		2-11	120	0.0.00	1.34		2059	2.238	0.0642
		2-11	150	0.0400	1.34				
			405	C.0133	1.35		2103 2112	2.954 3.046	0.0683

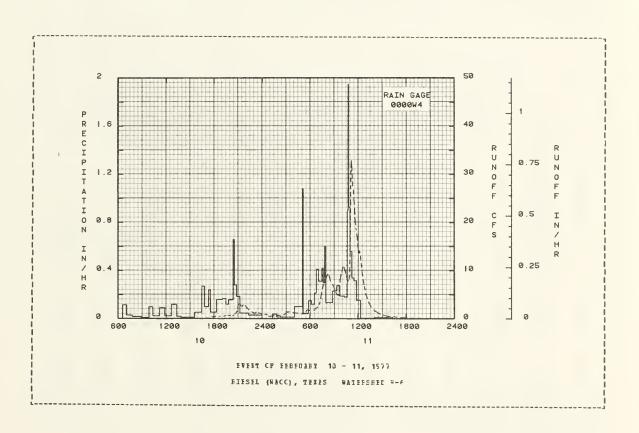
Conversion Factor: CFS to IE/HF, multiply by 0.023445.

ANTICIEPKT CONDITIONS		BAI	NFALL			FUNCE	 f	
ANTICEPPRI CONDITIONS Date Bainfall Funcff Eo-Day (irches) (inches)	Dat∈ Mo-Day	lime cf Eay	Intensity (in/hr)	Acc. (inches)	lat∈ Ec-lay	Tise of Cay	Fate (cfs)	Acc. (inches)
			10 - 11,					
	2-11	504 509 550 810 635	0.1017 1.0800 0.0439 0.1500 0.1200	1.49 1.58 1.81 1.68 1.71	2-16	2123 2130 2140 2154 2221	2.710 2.566 2.891 2.693 1.874	0.0913 0.0966 0.1092 0.1245 0.1466
			0.2143 0.4125 0.3120 0.4200 0.3000	1.76 1.87 2.00 2.07 2.12		2247 2306 2310 2319 2334	1.358 1.172 1.209 1.421 1.238	0.1650 0.1744 0.1762 0.1609 0.1887
		800 849 920 944 1019	0.6000 0.1347 0.2323 0.2750 0.1686	2.22 2.33 2.45 2.56 2.67	2-11	2400 20 40 49 128	0.986 0.921 0.829 9.520 0.683	0.2000 0.2074 0.2142 0.2166 0.2256
			0.1600 0.9000 1.9500 0.9273 0.5571			159 220 242 254 300	0.750 0.619 0.821 1.037	0.2342 0.2398 0.2460 0.2584 0.2532
			0.3375 0.3158 0.1548 0.0058 0.0132					
						532 540 552 600 629	1.736 1.72€	0.3262 0.3315 0.3400 0.3454 0.3654
						639 644 657 710 716	2.131 2.458 2.978	0.3726 0.3765 0.3882 0.4020 0.4096
						729 734 744 745 756	5.527 6.405 7.205 7.504 7.661	0.4325 0.4441 0.4707 0.4651 0.5059
						804 814 822 834 849	8.652 9.309 9.012 7.833 7.032	0.5314 0.5888 0.5953 0.8347 0.8783
						904 922 939 942 946	6.240 4.955 4.933 6.076 8.090	0.7172 0.7586 0.7894 0.7959 0.6069
						953 1000 1005 1014 1029	9.228 9.693 10.819 10.733 9.473	0.8306 0.8565 0.8785 0.9144 0.9737
						10 47 10 54 10 59 110 2 110 5	7.762 6.297 10.705 14.622 23.962	1.0343 1.0583 1.0749 1.0887 1.1124
						1106 1108 1110 1115 1120	26.508 32.065 32.661 30.708 27.491	1.1226 1.1463 1.1717 1.2336 1.2906
						1125 1131 1134 1137 1141	26.647 24.522 22.764 21.680 19.571	1.3435 1.4035 1.4312 1.4573 1.4895
						1144 1149 1155 1200	18.511 18.406 16.290 14.879	1.5118 1.5479 1.5886 1.6190

Conversion Factor: CFS to IB/B5, multiply by 0.7023445.

977		FLECTED BUNG	OFF EVENT				FIFSEL	(#ACC),	TEXAS SA	TERSHEE %-	6
	ANTEC	CENT CCNDI	CICES		B31	NEALL			FONCE	E	
	Date Bo-Day	Fainfall (inches)	Runcff (inches)			Intensity (in/hr)				Eate (cfs)	Acc.
				FVENT CF	FFEEGAFY	10 - 11,	1977 (CC)	(IZONIE)			
								2-11	1212	14.049	1.6851
									1216	13.765	1.70 88
									1225	11.458	1.7512
									1232	9.810	1.7800
									1240	7.859	1.8073
									1244	7.106	1.8190
									1248	€.71€	1.8298
									1301	4.955	1.8594
									1320	3.417	1.8905
									1339	2.350	1.9121
									1484	1.690	1.5320
									1445	1.009	1.9536
									1530	0.652	1.9682
									1559	0.514	1.9748
									1807	0.176	1.9921
									2042	0.057	2.0003
									2400	0.067	2.0067

Conversion Factor: CFS to IN/HF, multiply by 0.023445.



42.008- 4

RIESEL (RACO), TEXAS WATESSEEL W-10

LCCATICN: Falls Co., Texas; 15 mi. SE of Waco; Prazos Fiver Basin. Lat. E1 deg. 27 πin. 12 sec. N.; Long. 96 deg. 53 min. 0J sec. W.

ABEA: 19.70 acres

į.C	RTBLY	PRECIP	ITATICN	AND FUNCI	P (IRCEE	s)		BIE	SEI (WACO), TEXAS	WATER	SHED W-1	U	
		Jan	P∈b	ĕ ar	ytı	Bay	Jnn	Jnl	₽vg	Ser	Cct	ĭcv	L€C	Arrnel
1577	E Q	2.45 9.802	4.00 2.190	3.10 1.023	4.64 4.164	0.44	2.03 0.0	0.0	0.55	1.39 6.0	1.08 0.0	3.47 0.0	0.19 0.0	23.34 6.199
STA AV	E Q	2.04 0.535	2.56 0.576	2.31 0.598	4.06 1.094	3.79 3.916	3.32 0.619	1.79 0.164	2.39 0.112	2.96 0.291	3.16 0.480	2.69 0.523	2.30 0.575	33.57 6.466
	ANRO	AL EARI	BOB DISC	HAFGE (in	/hr) Akt	EAXINUE	AOTORI	S CE FUK	CFF (inch	∈s) FCR	SELECTE	t ilee i	DIEFVALS	
		Baxia Discha Dat∈ I	arg∈	1 Honr Cate Vol		Bonrs Vol.	6 Bc	urs	cr Select 12 Eours ate Vol.	1	Interva Day Vol.	l 2 Day £at∈ V		tays
1977		2-11 (0.259	2-11 0.2	237 2-11	0.412	2-11	0.873 2	-11 1.21	0 4-15	2.247	4-15 2	.745 4-1	4 4.184
						BAXIEUBS	FOE PE	FIOL CE	FICCEL					
		6-10 5 1941	5.01)	4-19 2.3 1957	310 4-19 1957		5-11 1957		-22 3.33 940	0 3-16 1974	3.789	4-24 5 1966	.160 5-1 195	19 6.290 17

Watershed Conditions: 100% Coastal Bermudagrass for pasture. Good ocver, moderately grazed, terraced.

Maps: Topographic/Bydrologic - Bydrologic Lata for Experimental Agricultural Watersheds in the United States, 1963,

USLA Misc. Put. 1164, p. 42.7-5 (revised).

Precipitation: Fecords began Aug. 1936. Cata from rain gage W-6.

Bunoff: Becords Legan Aug. 1936. Station not in operation July 1943 to May 3, 1946.

Long-Term Frecipitation: National Weather Service records at Waco, Texas.

1977	DI	LLY PREC	IFITATIC B	(IBCBES)			BIESEL (WACC), I	HAS WAT	-7 11821	10	
£ay	Jan	P∈b	Bar	Σŗ	Bay	Jur	Jnl	Ang	Sep	0ct	Rcv	D∈C
1	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.46	0.0
2	0.12	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.40	0.03	1.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0€	0.0	0.0	0.0	0.0	U.O	0.0	0.0	0.0
Ē	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	U - O	0.0	0.0	0.0
8	0.06	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
ç	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	1.61	0.0
10	0.0	1.44	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.73	0.0	0.0
11	0.0	2.14	0.18	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0
13	1.00	0.0	0.0	0.0	0.0	0.39	0.0	0.0	1.18	0.0	0.0	0.05
14	0.0	0.0	0.0	0.0	C. C	0.0	0.0	0.16	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	2.55	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.6	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
18	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
19	0.6	0.0	0.0	0.26	0.05	0.0	0.0	0.0	0.0	0.0	0.9	0.0
20	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.10	0.0	0.0
22	0.11	0.0	0.0	0.0	0.0	C.08	0.0	0.11	0.0	0.25	0.0	0.0
23	0.09	0.06	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0-0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.25	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.03	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.84	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.14
30	0.62		0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0
31	0.0		0.0		0.17		0.0	0.0		0.0		0.0
TCTAI	2.45	4.00	3.10	4.69	0.44	2.03	0.0	0.55	1.39	1.08	3.47	0.19
STA AV	2.04	2.56	2.31	4.0€	2.79	3.32	1.75	2.39	2.96	3.16	2.89	2.30

Cooperative Research Project of OSDA and Texas Agricultural Experiment Statica

Air Temperatures: See table for Watershed C, p. 42.002-1.
Gaging: Bain gage N-6.
Station Amerages: 35 yr beginning 1936 (part-year records not included). Station not in operation July 1943 to
Barch 1946.

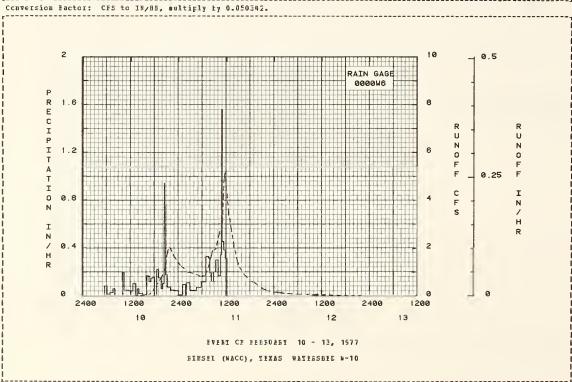
197	17	SEAN DAIL	EISCHAB	GF (CFS)			BIFSEI	(%ACC), I	FXAS VAT	FFSFFF W-	10	
Day	Jan	F∈b	ēar	şbr	P a y	Jer	Jel	Aug	2€₽	Cct	BcV	[ec
1	0.0	0.038	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
2		0.079	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.011		0.364	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
ą		0.011	0.032	0.0	3.0	0.0		0.0	3.0	0.0	0.0	0 - 0
5	J.392	0.0J2	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.0	0.0 T	0.3	0.0	0.0	0.0	0	9.9	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0 - C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	3.3	0.0	0.0	0.0
9	0.0	0.0	0.3	0.0	0.0		0.0	0.0	C.0	0.0	0.0	C-0
10	0.0	0.328	6.0	0.0	6.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
11	0.5	1.341	G.C T	0.2	0.0		0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.050	0.9	0.0	0.0		0.0	0.0	0.0	0.0	0.0	C.0
1.3	0.411	0.304	0.0	0.0	0.0		0.0	1.3	0.0	0.0	0.0	0.0
14	0.055	0.3 T	0.0	3.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
15	1.965	0.0	0.9	C.774	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
16	2.201	0.0		1.387	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.176	0.0		0.0	0.0	0.0	0.0	0.0	0.0
18	0.0		0.7	0.047	0.5		0.0	0.0	J. 0	0.0	0.0	6.0
19	0-0	0.0	0.0	0.023	0.0		0.0	0.0	0.0	0.0	0.0	0.0
20	9.0	0.0	0.0	0.881	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
21	0.0	0. Ú	0.0	0.152	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0_0	0.0	0.0
23	J.)	0.0	0.0	0.0	0.0	0.0	0.0	0.5	9.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0_0	0.0
25	0.3	9-3	0.0	0.0	0.0	3.0	0.0	ŭ. J	9.3	0.0	0.0	0.0
2€			0.023	0.3	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0
27	0.0	0.0	0.273	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		0.0	0.149	0.0	0.6		0.0	0.0	0.0	0.0	0-0	6.0
29	0.0		0.005	0.3	0.0		0.0	0.0	0.0	0.0	0.0	0.0
33	0.134		0.0 T	0.0	0.0	0.0	C - U	0 - C	0.0	C - 0	0.0	0.0
31	0.066		0.0		0.0		0.0	0.0		0.0		0.0
	0.0214		0.0273	0.1154		0.0	0.0	C . G	0.0	0.0	0_0	0.0
			1.023	4.184			0_0	0 - 0				0.0
AAV	0.535	0.578	0.598	1.094	0.516	0.619	0.164	0.112	0.291	0.480	0.523	0.57

Station Averages: IS yr beginning 1938 (part-year records not included). Station not in operation July 1943 to Barch 1946. Conversion Factor: CFS to IB/EAY, multiply by 1.208206.

977 SPLEC	117 1080					HALLET (ME			### #-10	
ANTECEDENT Late Fa Eo-Day (i	CCMDIT	IONS		FA:	INFALL			FUBCE	F	
[at∈ Fa	intall	Funcff	Date	Time	Intensity	Acc.	₽at€	Tite	Fate	Acc.
(1	DCDES]	(IBChes)	no-ray	or Lay	(15/61)	(11Ctes)	cc-ray	or ray	(CIS)	(1DCt ES)
					FCABY 19 -					
						13, 1377				
	230W6	0.0	- 4-	EG COJ						
2-10	0.0	0.0	2-10	5 27	0.0	0.0				
				603	0.0833	0.05		946 1249 1441 1505	0.001	
				848	0.0133 0.0267	0.08		1249	0.010	
								1441	0.032	
				E 03	0.0600	9-11		1505	0.028	0.0035
WATERSHED CC										
100% Coastal E				1003 1018	0.0	0.11 0.16		1521 1549	0.045	0.0040
pastnie, 4 to				10 18				1549	0.0€0	0.0052
high, good com	EI.			1133	0.0480	0.22		1636	0.0 € G	0.0076
				1232	0.0407	0.26		1703	0.114	0.0096
				13 18	0.1043	0.34		1739	0.217	
				1342	0.0	0.34		1759	0.368	0.0195
				1402		4 = 4		1833		
					0.0000	0.36		1849	0.476	
				1502	0.0200	35.0		1549	0.52€	
				1602	0.0 0.1667	36.0		2003 2048	0.674	
				1638	0.1667	30.0		2048	1.181	6.1206
				1708	0.1200	0.54		2110		
				1732	0.1500	0.60		2128	1.951	0.1754
				1803	0.1548	33.0		2155	2.044	0.228€
				1833	0.0			2220		0.2616
				1903	0.2200			2254	1.654	0.3117
				1943	0.1500	0.89		2327	1.529	0.3558
				2033		0.51		2327 2400	1 350	0.3556
				2033		0.51	2 44	2407	1.365	
						4.06	2-11	25		
				20 33	0.5429	1.06		50		6.4508
				2037	0.7500	1.11		221	0.978	0.5447
				2048		1.22		344	0.953	0.6038
				2112	0.1750	1.29		52 4 559	0.825	0.8788
				2202	0.0720	1.35		5.59	0.825	0.7029
					0.0480	1.35		634	0.894	0.7275
				2252 2400	0.0441	1.99		634 652	0.850	0.7405
				2				0.12	0.0.0	30,700

Conversion Factor: CPS to IB/BB, multiply by 0.050342.

S :	ELECTED BUNG	OFE FVERT				BIESEI (WA	ACC), TEX	AS WATERS	EFT W-10	
PATECE	DERI CONDI	TICKS		161	NEALL			BUNCE		
Lat∈ Mc-Day	Brinfall [inches]	Funcff inches)	Dat∈ Mo-Day	Ti∎∈ of Cay	Intensity (in/br)	Acc. [inches]	Dat∈ Mc-Day	Time of Day	Bat∈ cfs)	Acc. (inches)
					10 - 13,					
			2-11	3			2 44	3.05		
			2-11	103	0.0		2-11	810	1.327	0.7656
				147	0.0555	1.52		835	1.900	0.8577
				203	0.0	1.52		905		0.9060
				25€	0.1091	1.62		926		0.5405
				432	0.0447	1.69		950	2,295	0.9835
				547	0.0720	1.7€		1003		1.0095
				653	0.1182	1.91		1024	2.710	1.0551
				733	0.3300	2.13		1040	2.558	1.0908
				752	0.3158	2.23		1054	2.562	1.1212
				٤17	0.1929	2.31		1105	3.275	1.1482
				847	0.1200	2.37		1115		1.1793
				923	0.2000	2-45		1125	4.852	1.2170
				957	0.3000	2.€€		1140	5.142	1.2799
				10 23	0.1667	2.76		1156	4.711	1.3461
				1047	0.3429	2.64		1217	4.065	1.4256
				1057	1.5600	3 - 10		1238		1.4891
				1122	0.4560	3.29		1251	3.242	1.5251
				1147 1212		3.45 3.58		1322	2.693	1.6023
				1212	0.3120	3.30		1403	2.044	1.6638
								1446	1.474	1.7472
								1529		1.7950
								1640	0.874	1.6559
								1759	0.663	1.9069
								1837	0.577	1.9266
								1859	0.571	1.9372
								2019		1.9701
								2125		1.9893
								2259		2.0080
								2400	0.15€	2.0169
							2-12	38		2.0219
								52		2.0236
								23 7 4 <i>3</i> 9		2.0352
								439 701		2.0452 2.0537
								70 1	0.061	2.053/
								1917		2.0625
								1558	0.019	
								2400	0.006	2.0772



42.010- 3

RIESEL (WACC), TEXAS WATERSHED Y

LOCATION: Falls Co., Texas; 17 mi. SE Wacc; Erazos Fasin. Lat. 31 deg. 26 min. 36 sec. N.; Dorg. 96 deg. 52 win. 36 sec. N.

AREA: 309.00 acres

		PRECIP					· ,				FL (WAC			ATFESB:			
		Jan	F∈b	ĕar	A	Fr	Bay	Jnn	Jnl	λc	9 5	5∈ ŗ	Cct	ăc v	L€C		rruel
1977	Ē Q	2.35	3.73 2.160	3.4		.99 .532	0.54 0.018	1.81	0.0	0 - 0 .		2.30 3.4	1.25 0.0	3.22 0.0	0.2		4.04 5.116
VA AF	P Q	2.12 0.519	2.52 0.582	2.3 0.5			3.89 0.716	3.38 J.579	1.66 0.16			2.86 3. 1 58	3.07 0.239	2.76 0.35			3.22 5.189
	ANN	DAL CAXI Baxi					 8	axinum	Volume	for S	elected	line	Interva	1			
		Disch Dat∈		1 H Late	Vol.		Vol.						Vol.				
1977		2-11	0.306	2-11	0.263	2-11	0.443	2-11	0.925	2-11	1.235	2-10	1.770	2-10	1.690	2-10	1.966
1977		2-11	0.306	2-11	0.263		0.443					2-10	1.770	2-10	1.690	2-10	1.566

Watershed Conditions: 77% pastnre; 6% cotton; 6% fall planted small grain, largely oats; 6% row grain sorghmm;
1% gravel and paved roads; 2% other. Cropland terraced, contour cultivation. Bo change in conservation practices.
Baps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1564,
USDA Bisc. Pnl. 1194, p. 42.11-5 (revised).
Frecipitation: Fecords began Bay 1537. Data from Thiesser weighted method using rain gages 65, 651, 70, 75%, 64%,
85, and %-2%.
Bunoff: Records began May 1937. Station not in operation July 1943 to May 1, 1946. Fart-year records not included
in station averages.
Long-Term Precipitation: Bational Weather Service records at Waco, Texas.

1577	r c	AILY PERC	IFITATICN	(INCHES)			BIFS	ED (WACC)	, TEXAS	WATEISHE	T 1	
Lay	Jan	F€b	Bar	AFE	Bay	Jur	Jnl	A ng	S€F	Cct	Ncv	Lec
1 2 3	0.0 0.13 6.34 0.0	0.0 0.28 0.04 0.0	0.0 0.) T 1.23 0.02	0.0 0.01 0.01 0.16	0.0 0.0 0.0	0.06 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.45 0.0 0.0	0.0 0.0 0.0
5	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 7 8 9	0.11 0.0 0.02 0.0	0.0 0.0 0.0 0.0 1.29	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.01 0.0 0.03	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.33 0.23	0.0 0.0 0.0 0.0 0.6	0.0 0.0 0.6 1.63 C.L	0.0 0.0 0.0 0.0
11 12 13 14 15	0.0 0.0 0.87 0.0	1.95 0.0 0.6 0.0	0.23 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 2.31	0.0 0.0 0.0 0.0	0.14 0.07 0.26 0.05 1.02	0.0 0.0 0.0 0.0	0.0 0.0 0.01 0.10	0.0 0.0 1.54 0.0 0.0	0.04 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.05 0.0
16 17 18 15 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.86 0.0 0.03 0.02 0.55	0.0 0.0 0.6 0.02	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.13 0.0 0.10	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.0 0.12 0.06 0.0	0.0 0.0 0.09 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.21 0.0 0.0 0.0	0.0 0.11 0.10 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.14 0.0 0.0	0.0 0.0 0.0 0.0	0.13 0.26 0.0 0.0	0.0 0.0 0.0 0.13	0.0 0.0 0.0 0.0
28 27 28 29 30 31	0.0 0.0 0.0 0.0 0.70	0.08 0.0 0.0	1.11 0.87 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.6	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0 0.0	6.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.72 0.09	0.0 0.0 0.0 0.15 0.0
TOTAL STA AV	2.35 2.12	3.73 2.52	3.43 2.35	4.95 4.01	0.54 3.84	1.61 3.28	0.0 1.86	0.48 2.13	2.00 2.66	1.25 3.07	3.22 2.76	0.24 2.33

Air Temperatures: See table for Watershed C, p. 42.002-1.
Gaging: Thiesser weighted average of rain gages 69, 698, 76, 75%, 84%, 89, and W-2%.
Station Averages: 36 yr beginning 1937 (part-year records not included). Station not in operation Jnly 1943 to
Bay 1946.

Occoperative Research Project of USDA and Texas Agricultural Experiment Station

197	7	SEAN DAIL	Y IISCHAFO	r (CES)			FIFS	EL (WACC)	TFNAS	WATEFSBE	C Y	
Day	Jan	F€ò	Ear	şέι	tay	Jnt	Jel	ÀΒς	S€ŗ	Cct	Nov	Ľ€C
1	6.035	0.135	0.031	0.054	0.065	0.0	5.0	5.5	0.0	0.0	0.0	0.0
2	0.201	0.240	0.028	0.078	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.271	0.B22	2.599	9.044	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	9.168	J. 194	€.268	0.041	0.023	0.0	0.0	9.0	0.0	0.0	0.0	0.0
5	0.069	0.697	896.0	0.014	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.077	0.079	0.064	0.012	0.013	0.0	0.ŭ	0.0	0.0	0.0	0.0	0.0
7	0.06B	0.074	0.364	0.010	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.053	0.072	0.057	0.005	0.00H	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.045	0.071	6.052	3.005	0.007	0.0	U.C	6.0	0.0	0.0	U-0	0.0
10	0.02€	4.613	0.066	0.00€	0.006	0.0	0.0	5.0	0.0	0.0	0.0	0.0
11	0.043	19.505	0.12€	0.004	0.003	0.0	0.0	6.0	0.0	0.0	0.0	0.0
12	0.062	6.701	0.039	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	3.266	0.253	0.030	0.004	0.061	0.0	0.0	0.0	0.0	0.0	6.0	0.0
14	0.450	0.15B	0.830	0.006	0.0 T	0.0	0.6	0.0	0.6	0.0	0.0	0.0
15	0.140	0.109	0.035	4.441	0.0	0.0	9.0	0.0	0-0	0.0	0.0	0.0
16	0.075	0.104	0.032	8.575	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
17	0.065	6.101	0.028	0.554	0.0	0.C	0.0	0.0	3.0	0.0	0.0	0.0
18	0.063	0.094	0.027	0.214	0.0	0.0	0.0	0.0	0.0	6.0	0.0	6.0
19	0.063	0.063	0.019	0.091	0.0	0.0	6.0	6.0	0.6	0.0	0.0	0.0
20	0.966	9.072	0.012	4.742	0 - 0	0_8	0.0	0.0	0 - 0	0.0	0.0	0.0
21	0.067	0.072	0.012	0.426	6.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.075	C.078	0.039	0.127	0.0	0.0	0.0	0.0	C.O	0.0	0.0	0.0
23	0.212	0.07B	0.011	0.069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.163	0.047	0.015	0.056	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0
25	0.062	0.048	0.020	0.048	0.0	0.0	0.6	6.0	0.0	C . O	0.0	0.0
2€	0.061	0.055	6.883	0.041	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.763	0.036	3.201	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.042	0.034	1.840	0.021	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
29	0.024		0.064	6.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.961		0.042	0.137	0.0	0.0	0.0	0.0	C.0	0.0	0.0	0.0
31	0.440		6.027		0.0		0.€	0.0	_	0.0		0.0
PPAN	0.2394	1.0017	0.3091	0.8629	0.0077	3.0	0.6	0.0	0.0	0.0	0.0	0.0
INCHES	0.572	2.160	0.834	1.532	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VA AFS	0.519	0.582	0.57B	0.833	0.716	0.579	0.160	0.045	0.15B	0.239	0.354	0.425

Station Averages: 36 yr beginning 1937 (part-year records not included). Station not in operation July 1543 to Bay 1946. Conversion Factor: CPS to IN/DAY, multiply by 0.077028.

977 SELECTED RUNOFF EVENT				FIESEL	(WACC),	TEXAS &A	1 FESHEL Y	
ANTECEDENT CCHDITICES Late Fainfall Euncff								
Date Fainfall Huncff Bc-Day (irches) (inches)	Date Mo-Day	Ti∎∈ of Cay	Intensity (in/hr)	Acc. (inches)	Lat∈ Bc-Day	Ti∎∈ of Cay	Fate (cfs)	Acc. (inches)
	 PVF	57 CF FFF	EUAFY 10 -	13. 1977				
	~ 1.2			13, 1277				
RG 0C084A 2-10 C.C 0.001	2 10	FG 0001	0.0	0.0	2 40	544	0.083	
2-10 0.0 9.001	2-10	530					0.083	0.0 0.0006
		611 741	0.1024			754		
		741 E11	0.0267			1003	0.232	0.0019
						1056	0.413	0.0025
WATEFSHED CCUDITIONS:		926	0.0	0.13		1116	0.492	0.0033
7% pastnre, Bermndagrass		1040	0.0162	0.15		1306	0.548	0.0064
ind native grass, good		1141	0.0787			1306	0.548	0.0069
over, mcderately grazed:		1256	0.0400					0.0059
						1337 1351	0.767	
% fall planted oats; B% ow grain sorgium; 6%		1341 1411				1331	0.865	0.0080
		1411	0.0	0.37		1401	1.002	0.0065
otton; 1% gravel roads		4540	0.000			40.45		
nd 2% other. Cropland		1510	0.0132			14 16	1.163	0.0094
erraced, cultivated on		1611	0.0	0.36		1436	1.328	0.0167
contonr.		1645	0.1412			1452	1.401	0.0119
		1731	0.1304			1506	1.457	0.0130
		1801	0.1200	0.62		1527	1.528	C.0147
		1847	0.1043	0.70		1551	1.55B	0.0166
		1940	0.1472	0.83		1637	1.565	C.0205
		2011	0.0387			1656	1.727	G.0221
		2030	0.0547			170€	1.917	0.0231
		2038	0.5250			1714	2.123	0.0240
		2050	0.7300	1.05		1719	2.512	0.0246
		2110	0.0500	1.12		17 27	2.772	0.0257
		2156	0.1043	1.20				0.0272
		2250	0.3444			1736 1747	4.052	0.0295
		2345	0.0436			1759	5.021	0.0324
		2400	0.0	1.28		1617	6.817	0.0381
	2-11	121	0.0	1.2€		1838	7.645	0.0462
		201	0.1000				€.525	0.0492
		210	0.0 0.0€75			1855	9.042 10.463	0.0539
		330	0.0675	1.42		1913	10.463	0.0633

Conversion Factor: CFS to IF/BF, multiply ty 0.003210.

	LICIED FONO					FIESEL (GACC), TEXAS GATEFSEEL Y					
ANTECEI Tate Ac-Day	BBS CCRDIT Sainfall (itches)	ICNS Funcff (iuches)	Dat∈ Eo-Day	FAI Tim∈ of Eav	NEALL Intersity (in/hr)	Acc.	Cat∈ Bc-Day	NONCE Time of Day	late (cfs)	Acc.	
					10 - 13,		•				
			2-11	511 610 641 701	0.0356 0.0308 0.1548 0.3500 0.2789	1.48 1.53 1.81 1.74	2-10	1932 1947 20 10 2033	11.346 11.983 12.682 13.152	0.0838 0.0838 0.0990 0.1149	
				801 515 911 925	0.2000 0.0657 0.0657 0.3429 0.2600	2.05 2.05 2.13 2.71		2049 2055 2134 2111 2119	16.374 18.358 20.444 21.007	6.1272 0.1328 6.1421 0.1499	
				10.55 11.15 11.40 11.55	0.1698 0.9429 0.5103 0.2649 0.3630	2.69 2.66 2.97 3.06		2 150 2140 2 152 2203 2215	27.530 27.720 26.535 25.369	0.1885 0.2082 0.2221 0.2388	
									25.270 22.618		
								2250 23 3 5	21.266 21.266 20.091 19.400	0.2832	
							2-17	2337 2460 7	16.024 16.721 16.203 15.736 14.956	(.3328 0.3540 (.3802	
								14 27	15.738 14.958	0.3661	
								40 48 55 112	14.324 12.938 13.716 13.152	0.3870 0.3930 0.3982 0.4104	
								126	12.504	C. 426°	
								137 156 216 236 251	11.983 11.711 11.444 11.247 11.613	0.4272 0.4393 0.4517 0.4638 0.4231	
								327 351 411 438	12.224 12.682 13.225 13.522 13.522	0.4967 0.5133 0.5278 0.5458	
								516 536 557 614	12.933 12.575 13.410 13.410 12.447	0.5732 0.5671 0.6022 0.6144	
								628	14.053 15.079	C. E247	
								€57	16.165 16.210 20.647	0.6563	
									24.279 27.487		
								743 749 755	31.53c 38.118 38.842	0.7029	
								80 E E 18	49.117 40.876	0.7489	
								834 845	40.117	0.8096 0.6413	
								904	3€.972	6.8718	
								919 921	30.828 34.529	0.9008	
								929 94 1	14.529 35.886	0.5151	
								950 957	37.840 39.539	0.9739	
								1007	40.534	0.9953	
								102E 1037	43.016 43.016	1.0360	
								1045 1053	42.062	1.0815 1.1000	
								1055 1055 1104	46.865	1.1045	
								10 15 10 26 10 37 10 45 10 53 10 55 10 55	41.576 43.016 43.016 42.062 44.522 48.866	1.01 1.03 1.05 1.06 1.10	

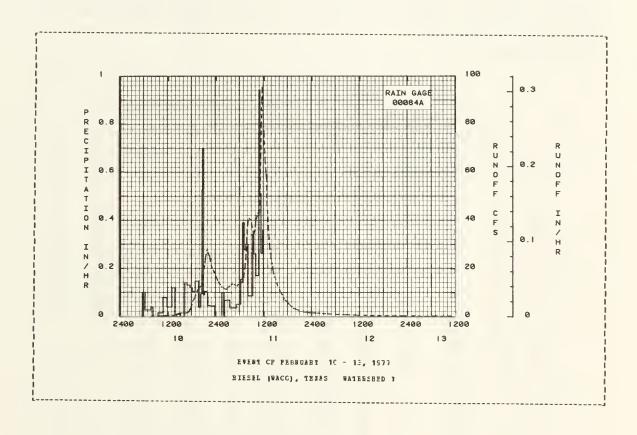
Conversion Factor: CPS to IN/HF, multiply by 0.002210.

ANTECREBAT CONDITIONS						FONCER		
For Day (inches) (inches	Date) Mo-Day	Time of Lay	Intensity (in/h1)	Acc. (inches)	[at∈ Ec-Day	Time of Cay	Fate (cfs)	Acc. (inches)
				1977 (CC)				
				1317 (00.	2-11	1109	61.107	1 1/119
						1113	68.05e	1.1551 1.1870
						1126	91.479	1. 2147
							95.342	
						1136 1141	94.372 88.770 83.103 78.751	1.2652
						1148	83.103 78.791	1.3219
						1200	74.515	1.3725
						1210	69.289 84.808	1.4110
						1225	60.882	1.463û
						1234 1236	57.555 57.240	1.4578
						1239	58.985	1.5071
						1241 1243	52.435 45.368	1.5071 1.5130 1.5185
						1239 1241 1243 1248 1259	45.750	1.5312 1.5567
						1309		1.5772
						1319 1330	31.928	1.5953
						1341	25.988	1.6267
						1351 1359	23.464	
						1406	22.220	1.6516 1.6559 1.6710
						1430	15.449 17.521 16.547	1.6710
						1445		1.6985
				4		1515	15.365 13.785	1.7105 1.7229
						1529 1544	12.682	1.7328
						1604	10.483	1.7426 1.7545
						162 0 1635	5.758 5.014	1.7631
						1651	7.504	1.7779
						1764 1721	6.868	1.7832 1.7896
						1740	6.151	1.7963
						1759 1816	5.133	1.8023 1.8072
						1833 1842	4.772 4.561	1. 8 117 1. 8 139
						1855		1.8170
						1909 1927	4.092	1.8201 1.8237
						1938	3.338	1.6258
						1950		1.8279
						2000 2020	2.863	1.8295 1.8327
						2035 2045	2.609	1.8350 1.8364
						2059		1.8383
						2 119 2139	2.159 2.077	1.6408 1.6431
						22 10 2235	1.909	1.8464
						2255	1.727	1.8506
						2315 2334	1.664	1.8526 1.8542
					2-12	2400 25	1.572 1.528	1.8564
					2.12	34	1.455	1.8592
						41	1.528	1.8598
						104 129	1.457	1.8617 1.8636
						159 245	1.334 1.251	1.8658 1.8690
						329	1.189	1.8718
						460 454	1.135 0.970	1-8738 1-8768
						556	0.875	1.8755

Conversion Factor: CES to IN/RE, multiply by 0.003210.

1 977 £	FLECTED ROB	OFF EVENT				FIESEL	(WACC),	TEXAS SA	TEESHEL Y	
ANTICE Date So-Day	DEB1 CCRDI Fainfall (inches)	TICKS Inneff (inches)	Date no-Day	FA: Time of Day	INFALL Intensity (in/hr)	ècc. (inches)	[ate 8c-Day	FONCF Time of Cay	F Fate (cfs)	Acc. (inches)
			EVERT CF	FEBEUAEY	10 - 13,	1977 (CON	(TINOFE)			
							2-12	1345 1158 1539 1630 2225	0.681 0.609 0.459 0.380 0.328	1. 8917 1. 8942 1. 9005 1. 9044 1. 9088
							2-13	2400 727 1108	0.313 0.280 0.276	1.9105 1.9175 1.9208

Conversion Factor: CFS to IM/HF, multiply by 6.032210.



42.011- 5

FIESEL (WACC), TEXAS WATERSHEE Y-2

LCCATION: Falls Co., Texas; 18 mi. SE Macc; Brazos Fiver Easin. Lat. 31 dec. 26 mir. 30 sec. M.; Icng. 96 deg. 52 min. 46 sec. W.

ASEA: 132.09 acres

FC	KTELY	PRECI	N O LTAFT	ANE FO	SCEE (INCEES)			RIES	EL (FAC	C), 1	EXAS W	ATEFSH	EL Y-2		
		Jan	F€b	Esī	Ar	r	May	Jun	Ju1	Àτ	g 5	€ŗ	Oct	Rov	Ľ€C	:	Arrnel
1977	P Q	2.41 0.331	3.62 1.65€	3.47 0.61		05 €4ċ	0.56 0.005	1.80 0.0	0.0 0.0	٥. ٤.		.09	1.23 6.0	3.27 0.0	0.2		24.39 4.253
SIA AV	£ Q	2.14 0.44€	2.58 0.605	2.36 0.69		08 940	4.25 1.327	3.32 0.596	1.88 0.161			.9: .153	3.03 9.276	2.90 0.36			34.26 5.837
	ANNO	Bazi Ciscl	arg∈	1 Bo	ur	2 F	fcurs	Jaxisus 6 Be	Volnm∈ curs	fcr 5	elected ours	illine 1	Interva Lay	1 2 E	 aşs	8	cays
		Dat€		Dat∈			Vcl.				Vol.		Vol.		Vcl.		Vol.
1977		2-11	0.342	2-11	0.283							2-10	1.404	2-10	1.514	4-15	1.613
							EANIEUES	FCF F	FEJOL CE	FECC	E C						
		5- 1	4.070	5- 1	3.110	5- 1	5.470	5- 1	7.080	S- 1	7.260	5- 1	7.460	4-36	5.640	4-25	10.€00

Natershed Conditions: 15% cctton; 13% fall planted small grain, largely cats; 12% row grain scrobus; 55% pasture; 1% gravel and paved roads. Cropland terraced, contour cultivation, conservation treatment since 1942.

Maps: Topographic/Hydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USIA Misc. Put. 1194, p. 42.11-5 (revised).

Precipitation: Fecords began Jan. 1, 1939. Data from Thiessen weighted method using rain gages 65, 691, 70, 75%, and 64%.

Ennoff: Fecords tegan Jan. 1, 1939.

Long-Term Precipitation: National Veather Service records at Waco, Texas.

1977) E	Ally Phec	IFITATICE	(IRCHES)			FJES	EL (%ECC)	, TEXAS	WATEFSHE	C Y-2	
Lay	Jar	P∈b	Ear	Afr	Hay	Jur	Jul	λυç	S€p	Cct	BC4	Γ€C
1	0.0	0.0	0.0	(.0	0.0	0.05	0.0	0.0	0.0	0.0	0.45	0.0
2	0.14 2.35	0.28	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3.0	0.34	0.03	0.01 0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.12	0.0	0.0	0.6	6.0	0.0	0.0	0.0	C.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.0
€	0.03	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.33	0.0	0.0	0.0
ç	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	1.50	0.0
10	0.0	1.28	0.0	0.0	0.02	0.0	0.0	0.0	0.0	6.82	0.0	0.0
11	0.0	2.03	0.21	0.0	0.0	0.15	0.0	0.0	0.0	0.04	0.0	0.0
12	0.3	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
13	0.€5	0.0	0.0	0.0	0.0	0.33	0.0	0.01	1.48	0.0	0.0	0.08
14 15	J.0 0.0	0.0	0.0	0.0 2.35	0.0	0.05	0.0	0.10	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	2.35	0.0	1.02	0.0	0.0	C-0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.8€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.02	0.03	0.0	0.0	0.0	0.0	0.0	0-0	0.0
20	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.11	0.0	0.0
22	0.14	0.3	0.0	0.0	0.0	0.09	0.0	0.12	0.0	0.2€	0-0	0.0
23	0.05	0.09	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0
24 25	0.0	Ü.J 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13 0.0	0.0
2=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.10	1.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.73		0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.15 0.0
31	0.0		0.0	0.03	0.16	0.0	0.0	0.0	0.0	0.0	0.09	0.0
ICTAI SIA AV	2.41 2.14	3.82 2.58	3.47 2.56	5.05 4.08	0.56 4.24	1.60 3.32	0.0 1.88	0.46	2.05 2.93	1.23 3.03	3.27 2.90	0.23
	2.14	2.30	2.30	4.00	4.24	3.32	1.66	2.14	2.53	3.03	2.90	2.46

Air Temperatures: See table for Watershed C, p. 42.002-1. Gaging: Thiesser weighted average of rain gages 69, 69E, 70, 75A, and 64A. Station Averages: 39 yr beginning 1935.

Cooperative Besearch Project of USDA and Texas Agricultural Experiment Station

2 0.043 2 0.064 4 0.027 5 0.005 6 0.011 7 0.007 6 0.005 7 0.005 10 0.001 11 0.006 12 0.005 13 0.532 14 0.532 16 0.010 17 0.006 18 0.007 19 0.006 20 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 23 0.007 24 0.005 25 0.005 26 0.004 27 0.004 28 0.004 29 0.004 20 0.004 20 0.004 20 0.004 21 0.004 22 0.004 23 0.004 24 0.005 25 0.004 26 0.004 27 0.004 28 0.004 29 0.004 20 0.005											E 1-2	
2 0.043 2 0.064 4 0.027 5 0.005 6 0.011 7 0.007 6 0.005 7 0.005 10 0.001 11 0.006 12 0.005 13 0.532 14 0.532 16 0.010 17 0.006 18 0.007 19 0.006 20 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 23 0.007 24 0.005 25 0.005 26 0.004 27 0.004 28 0.004 29 0.004 20 0.004 20 0.004 20 0.004 21 0.004 22 0.004 23 0.004 24 0.005 25 0.004 26 0.004 27 0.004 28 0.004 29 0.004 20 0.005	Jar	P€D	Mar	Apr	Bay				S€Į		bc₹	£€¢
0.066 0.011 0.005 0.005 0.001 0.005 0.001 0.005 0.006 0.006 0.006 0.006 0.006 0.006 0.007 0.006	0.012	0.024	0.004	0.012	0.023	0.0	0.0		0.0	0.0	บ.ถ	0.0
\$\begin{array}{cccccccccccccccccccccccccccccccccccc	0.043	0.056	0.003	0.024	0.002	0.0	3.6	0.0	0.0	0.0	0.0	6.0
5 0.005 6 0.011 7 2.007 6 0.005 9 0.010 10 0.006 11 0.005 12 0.052 14 0.136 15 0.032 14 0.136 15 0.006 17 0.008 16 0.007 17 0.008 16 0.007 17 0.006 20 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006 22 0.007 21 0.006	0.964	0.253	1.053	0.013	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 0.011 7 2.007 6 0.905 9 0.110 10 0.006 12 0.005 13 0.552 14 0.136 15 0.032 14 0.136 15 0.007 21 0.006 20 0.007 21 0.006 22 0.009 23 0.005 24 0.005 25 0.005 26 0.004 27 0.006 28 0.009 29 0.009 30 0.007		0.046	0.066	0.011	0.001		0.0	0.0		0.0	0.0	0.0
7 0.005 5 0.10 10 0.001 11 0.005 12 0.052 14 0.156 15 0.522 14 0.156 16 0.007 16 0.007 17 0.008 16 0.007 21 0.006 20 0.007 21 0.006 22 0.009 23 0.005 24 0.005 25 0.005 26 0.004 27 0.004 28 0.004 29 0.004 20 0.004 20 0.004 21 0.004 22 0.009 23 0.005		0.015	0.016	0.004	3.3		0.0	0.0	0.0	0.0	0.0	0.0
6 0.005 9 0.011 11 0.006 12 0.005 13 0.522 14 0.136 15 0.032 16 0.010 17 0.008 16 0.007 17 0.008 16 0.007 17 0.008 16 0.007 17 0.008 16 0.007 17 0.008 18 0.007 19 0.006 20 0.007 21 0.006 22 0.009 23 0.005 24 0.015 25 0.005 26 0.004 27 0.004 28 0.004 29 0.004 20 0.004 20 0.004 21 0.004 22 0.004 23 0.004 24 0.005	0.011	0.009	0.009	0.304	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
\$ 0.010 10 0.006 12 0.005 13 0.552 14 0.136 15 0.632 16 0.010 17 0.008 16 0.007 15 0.006 20 0.007 21 0.006 22 0.049 23 0.049 24 0.015 25 0.005 26 0.004 27 0.006 28 0.004 27 0.004 28 0.004 25 0.004 25 0.004	0.067	0.008	0.007	0.001	0.0	0.0	0.6	១.០	0.0	0.0	0.0	0.0
10 9.001 11 0.006 12 0.005 13 0.512 14 0.136 15 0.032 14 0.136 16 0.010 17 0.008 16 0.007 21 0.006 20 0.007 21 0.006 22 0.009 23 0.005 24 0.005 25 0.005 26 0.004 27 0.005 26 0.004 27 0.004 28 0.004 29 0.004 30 0.004 30 0.004 30 0.004	0.005	3.008	0.005	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
10 9.001 11 0.006 12 0.005 13 0.512 14 0.136 15 0.032 14 0.136 16 0.010 17 0.008 16 0.007 21 0.006 20 0.007 21 0.006 22 0.009 23 0.005 24 0.005 25 0.005 26 0.004 27 0.005 26 0.004 27 0.004 28 0.004 29 0.004 30 0.004 30 0.004 30 0.004	C-210	0.007	0.005	0.0	0.0	0.0	0.0	3.0	0.0	6.6	6.0	0.0
12		2.025	0.036	0.0		0-0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.006	6.168	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15		U. 293	0.004	0.0	0.6	0.0	0.0	0.0	0.0	0.0	6.0	0.0
14 0.156 15 0.032 16 0.010 17 0.008 16 0.007 15 0.006 20 0.007 21 0.006 22 0.009 23 0.045 24 0.015 25 0.005 26 0.004 27 0.004 28 0.004 28 0.004 29 0.004 30 0.004 30 0.004 30 0.004		0.074	0.032	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
15		0.632	0.001	6.3	0.0	0.0	0.0	0.6	0.0	0.0	6.0	0.0
17 0.008 16 0.007 15 0.006 20 0.007 21 0.006 22 0.009 23 0.045 24 0.015 25 0.005 26 0.005 27 0.004 28 0.005 29 0.005 20 0.009		0.618	0.003	2.264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
17 0.008 16 0.007 15 0.006 20 0.007 21 0.006 22 0.009 24 0.015 25 0.005 26 0.005 27 0.004 28 0.005 29 0.005 20 0.009 20 0.009	0.010	0.018	0.001	4.275	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
16 0.007 20 0.006 21 0.006 22 0.009 23 0.045 24 0.015 25 0.005 26 0.004 27 0.004 28 0.004 29 0.004 30 0.004 30 0.256		3.91€	0.001	0.186	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
15 0.006 20 0.007 21 0.006 22 0.009 23 0.049 24 0.015 25 0.005 26 0.004 27 0.104 28 0.004 27 0.104 28 0.004 27 0.256		0.017	0.002	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 0.007 21 0.006 22 0.009 23 0.045 24 0.015 25 0.005 26 0.004 27 0.005 28 0.004 27 0.004 27 0.004 28 0.004 27 0.004 28 0.004 27 0.004 28 0.005		0.016	C.0 7	J.019	0.0	0.0	0.0	0.0	0.0	0.0	ŭ.0	0.0
22 0.069 23 0.045 24 0.015 25 0.005 26 0.004 27 0.304 28 0.004 25 0.001 50 0.256		0.013	0.0	1.975	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 0.069 23 0.045 24 0.015 25 0.005 26 0.004 27 0.304 28 0.004 25 0.001 50 0.256	0.006	0.011	0.3	0.143	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
25 0.045 24 0.015 25 0.005 26 0.004 27 0.304 28 0.004 25 0.001 30 0.256		0.012	0.0	0.040	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
24		0.012	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 0.009 27 0.309 28 0.004 29 0.001 30 0.256		0.005	0.0	0.016	3.0	0.0	0.5	0.0	0.0	6.0	C.8	0.0
27 0.304 28 0.004 25 0.001 30 0.256		0.006	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 0.304 28 0.004 25 0.001 30 0.256	0.000	0.011	0.256	0.006	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
26 0.004 25 0.001 30 0.256		0.005	1.351	0.003	0.0		0.0	0.0	0.0	0.0	0.0	0.0
25 0.001 30 0.256			0.558	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 0.256		0.000	0.013	0.002	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
			0.013	0.002	0.0	0.0	0.5		0.0	0.0	0.0	0.0
31 0.106	0.256		0.007	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0592	0 0590	0.3281	0.1101	0.3042	0.0035	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			0.615	1.646			0.0	0.0			0.0	0.0
AV 0.446			0.652		1.027		0.161	0.044				0.50

Station Averages: IP yr beginning 1939. Conversion Eactor: CFS to IB/EAY, multiply by 0.180316.

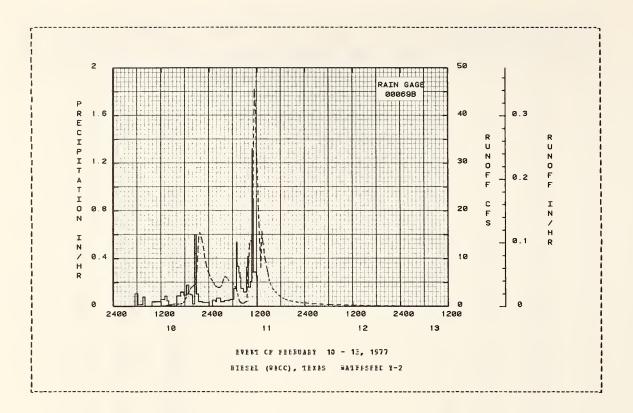
AFTECECEBBT C	EDWOFF EVERT		E A	INFALL			FORCE	E	
ANTECEDRET C Date / Bainf Bo-Day (irch	all Buncff	Dat∈	Time	Intensity	Acc.	£at∈	lise	Bate	Acc.
to-Day irch	es) (inches)	Mo-Day	of Cay	(in/hr)	(inches)	ec-tay	of Eay	(cfs)	(inches)
		PVF	NI OF FEB	EUARY 10 -	13, 1977				
FG 0006			EG 300						
2-10 0.	0 0.001	2-10	522	0.0	0.0	2-10		0.011	0.0
			607		0.06		90€	0.016	0.0001
			722	0.0160			841	0-020	0.0002
			752				906	0.024	0.0002
			937	0.0	3.14		926	3.029	0.0003
WATERSBED CCBCIT									
9% pasture, Ferm			1022	0.0400			958	0.036	0.0004
ativ∈ grass, ccc	d ccveI,		9 4 5 0	0.0400	0.23		1022	0.050	0.000€
oderately grazed	; 15% cotton;		1253	0.0590	3.29		1051	0.057	0.0038
3% fall flanted ow grain sorghum	cats: 12%		1327	0.0882	0.34		1122	0.075	6.0010
ow grain sorghum	: 1% gravel		1352	0.0480			1146	0.066	0.0013
oads. Cropland	terraced.								
ultivated on con	tour.		1552	0.0050	3.37		120€	0.096	0.0015
			1652	0.0900	0.46		1228	0.116	0.0018
			1737	0.1200			1245	0.142	0.0021
			1822	0.0933					0.0022
			1852	0.1800			1252 1311	0.205	0.0022
			16.2	0.1000	V - 7 1		1211	0.202	0.0020
			1927	0.1029	0.77		1337	0.281	0.0034
			1952	0.0560			1401		0.0044
			2022	0.0300	0.61		14.76	0.070	0.0044
			2032	0.6000			1456	0.434	0.0072
							1420	0.490	
			2047	0-6000	1.07		1528	0.536	0.0093
			2122	0.1029	1.13		1558	0.513	0.0113
			2222	0.0400	1.17		1624	0.509	0.0129
			2400	0.0306			1551	0.560	0.0147
		2-11	52	0.0	1.22		1711		0.0162
			137	0.0533			1734	0.823	0.0163
			152	0.0400	1.27		1744	1.061	0.0155
			252	0.0700			1800	1.456	0.0192
			352	0.0400			1817	1.918	
			512						
			612	0.0525	1.51		1836 1842	2.569	
			612	0.000	1.21		1842	2.693	0.0330

Conversion Factor: CPS to IB/86, multiply by 0.007513.

3 × 6 n c 5 n	DEC CCEDIO					FIESFI				
fate forDay	BNI CCNDIT Fainfall (irches)	Funcff (inches)	Date Mo-Lay	Tiwe of Lay	Intensity (in/br)	Acc. (inches)	Dat∈ Mc-Day	Time of Day	Fate (cfs)	Acc. (inches)
					10 - 13,					
			2-11					40.00		
			2-11	652 702	0.5400	1.70	2-10	1501	3.225	0.0347
				727 742	0.3360 0.2600	1.64		1916	3.632	0.0465
				757	0.2400	1.61 1.70 1.64 1.51 1.97		1950	4.166	0.0632
				£37	0.1500 0.1200 0.3300 0.4200 0.1600	2.07		20 11	4.441	0.0748
				922 942	0.1200	2.16		2028	4.542	0.0841 0.0877
				552	0.4200	2.34		20 43	4.441 4.542 4.875 5.662 6.547	0.0536
				1022						
				1042 1047	0.2100 0.6000 1.3200 0.9000 0.2880	2.49 2.59 2.65 2.60 2.92		2101 2108	7.871 9.830 12.654 14.610 15.515	0.10EE 0.11E5
				1052 1102	1.3200	2.65		2117 2126	12.654 14.610	0.1292
				1127	0.2880	2.92		2137	15.515	0.1654
				1152	0.2680 0.2571	3.04		2151	15.225	0.1523
				1206	0.2571	3.10		2205 2220	19.517	0.2184 0.2445
								2232	15.225 14.517 13.342 12.568 11.663	0.2640
									40 430	0.5034
								2311	10.139 9.231 6.106 7.497 6.998	0.2971
								2327 2343	6.106 7.497	0.3339
								2355	€.95€	0.3604
								2400	6.757 6.317	0.3647
							2-11	13 25	5.824	0.3644
								36 43	5.656 5.518	0.3924 0.3973
								52		
								108	5.025	0.4034
								120 134		0.4209 0.4267
								149	4.148	0.4367
								205		0.4450
								221 236	3.574	0.4530 0.4604
								245 301		0.4669
								312	0.061	0.4792
								320	4.89€	0.4839
								338 35 0		0.4955 0.5046
								408	6.292	0.5186
								419 433		0.5273 0.5378
								444	5.635	0.5456
								455 554		0.5534 0.5916
								607	4.624	0.5594
								€26 636	4.200	0.6099
								646	3.735	0.6198
								659	3.163	0.6254
								709 717	2.643 2.141	0.6291 0.6315
								726	1.553	0.6336
								733 740	1.120 0.958	0.6347 0.6356
								747	0.879	0.6365
								758 813	0.761 0.625	0.6376
								€29	0.700	0.6402
								846	0.734	0.6416
								857 911	0.860 0.976	0.6429 0.6445
								922 930	1.054	0.6459
								938	€.829	0.6505
								948	8.034	0.8602
								959 1005	9.750 12.064	0.6725 0.6807
								1014	13.315	0.6950

Conversion Factor: CPS to IN, HE, multiply by 0.007513.

i I	CCNDI	TIChS Funcff	Date	FAI Tiae	INEALL Intersity (in/br)	Acc.	Date	FORCF Time	E Fat∈	Acc.
(i	rches)	(inches)	Bo-Day	of Cay	(in/br)	(inch∈s)	#c-Day	cf Cay	(cfs)	(inches)
-										
			EAERI CE	FEEFUABY	10 - 13,	1977 (CC				
							2-11	1034	13.205	0.7451
								1051	14.555	0.7561
								1057	15.554 13.205 14.555 17.765 21.943	0.7702
								1100	21.94:	0.1111
								1103	27.56E	0.7670
								1105 1107	31.042 33.056	0.7544
								1111		0.6204
								1116	40.672	
								1119	44.251	0.6607
								1122	45.55€	0.877€
									43.551 41.852	
									39.007	
								1144	36.396	0 6623
								1150	37, 158	1.0196
								1157	30.474	1.0477
								1205	30.474 27.952 24.116	1.0770
								1223	19.911 16.451	1, 1316
								1239	13.930	1. 1655
								1246	12.332	
								1255	9.406	1.1652
								1259	6.172	1.1936
								1314	15.760	1.2161
								1329	13.607 11.987	1.2927
								1358	10.490	
								14 13	9.167	1.3057
								1429	6.046	1.3229
								1440 1445	7.161	1.3334
								1455		1.3460
								1504	5.656	1 3500
									5.356	1.3555
								1519	4.832	1.3625
								1532 1550	4.461	1.3701
								1513 1634		1.3986
								1654		1.4055
								1724	2-37€	1.4156
								1754	2.043	1.4239
								1824	1.806	
								1844 1909	1.645	1.4354
								1909		1.440:
								20 14		1.4511
								2100		1.4574
								2147	0.944	1.4632
								2224 2305		1.4674
								2335	0.752	1.474€
								2400	0.717	1.4769
							2-12	154	0.551	1.4660
								6 15	0.375	1.5011
								1803	0.256	1.5146
								2800		1.5297
							2-13	956	0.084	1.5367
								2400 154 6 15 1155 1803		0.717 0.551 0.375 0.256 0.152



42.012- 5

BIESEL (WACO), TEXAS WATERSHED 1-6

LCCATICE: Falls-Cc., Texas; 10 mi. SE of Wacc,; Brazos Biver Easin. Tat. 31 deg. 28 min. 26 sec. N.; Iong. 96 deg. 53 min. J9 sec. W.

AFEA: 16.30 acr∈s

вC	BIBLE	PRECIFI	1711C#	SAC EGRO	FF (IBCE	S)			SIESEI (%ACO), I	ZXAS 1	ATEFSET	3-7 38		
		Jan	P∈b	Bar	Afr	Вау	Jan	Jul	åtg	Ş€F	Cct	Kc v	1€0		lsual
1977	F Q	2.44	3.81 1.61€	3.74 0.236	5.09 1.165	0.54 0.0	1.69 0.0	0.0 0.0	0.48 6.)	2.13 0.0	1.19 0.0	3.26 0.0	0.2		24.31 1.054
VA AF	P Q	1.99 0.288	2.59 0.368	2.29 0.380	4.05 0.703	3.EE 0.722	3.48 0.573	1.69 0.152	2.19 0.048	2.98 0.132	3.27 0.345	2.86 0.34			4.413
	AHNO	AL EANIE		BARGE (i	.b/br) A&i				BCFF (inc				INTER	PLS	
		Discha Dat∈ I		1 Hcur Cat∈ Vo	2 1. Date	Honrs Vol.			12 Eours Dat∈ Vol		Day Vol.		vcl.	8 i Dat∈	Vol.
1977		2-11 (.544	2-11 0.	407 2-1	0.616	2-11	1.183	2-11 1.3	57 2-10	1.556	2-10	1.€0€	2− €	1.611
						PARIFURS	PCE FI	FICE CF	PECCED						
		6-10 3 1941		3-29 1. 1985	900 3-29		3-29 1965		3-29 3.1 1965	30 3-29 1965		11-22	4.870	4-15	8.490

Ratershed Conditions: 94% scrghum; 4% other; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices.

Baps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USIA Bisc. Fut. 1194, p. 42.11-5 (revised).

Precipitation: Fecords began Jan. 1939. Data from Thiesser weighted method using rain gages 65% and 75%.

Bunoff: Becords began Jan. 1939. Station not in operation July 154% to Bay 1, 1947. Fart-year records not included in station awards. Bunoff: Hecords began Jan. 1939. Station not in operation July 1943 to 8 in station averages.
Long-Term Precipitation: Wational Weather Service records at Waco, Texas.

1977) Di	AILY PREC	IFITATICE	(IECHES)			F1F5	EL (WACC)	, TEXAS	PATFFEHE	1-€	
Lay	Jan	₽€b	Ear	Apr	Eay	Jur	Jul	Ang	Sۂ	Cct	Bos	Ľ€C
1	0.0	0.0	0.0	0.0	0.C	0.04	0.0	0.0	ŭ.0	0.0	0.44	0.0
2	0.12	0.29	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.39	0.03	1.22	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
rt .	0.0	0.0	0.93	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	C.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0
8	0.04	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.35	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	1.92	0.0
10	0.0	1.28	C.3	0.0	0.02	0.0	0.0	0.0	0.0	0.78	0.0	0.0
11	0.0	2.03	0.20	0.0	0.0	0.16	0.0	0.0	0.0	0.05	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	G.0	0.0	0.0	0.0
13	0.86	0.0	0.0	0.0	0.0	0.33	0.0	0.0	1.47	0.0	0.0	0.08
14	3.0	0.0	0.0	0.0	0.0	0.03	0.0	0.11	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	2.34	0.0	0.98	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.03	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.98	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.10	0.0	0.0
22	0.12	0.0	0.0	6.0	0.0	0.09	0.0	0.14	0.0	0.26	0.0	0.0
23	0.06	0.0B	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.12	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.10	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	G. O	0.0	0.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.16
20	0.74		0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0
31	0.0		0.0		0.15		0.0	0.0		0.0		0.0
IATO	2.44	3.81	3.44	5.09	0.54	1.69	0.0	0.48	2.13	1.19	3.26	0.24
VA AF	1.99	2.59	2.25	4.05	1.88	3.46	1.85	2.19	2.58	3.27	2.86	2.2€

Air Temperatures: See table for Watershed C, p. 42.002-1.
Gaging: Thiesser weighted average of rain gages 69F and 751.
Station Averages: 24 yr beginning 1935 (part-year records not included). Station not in operation Jnly 1543 to Bay 1, 1547.

Cooperative Besearch Project of USDA and Texas Agricultural Experiment Station

197	7	MPAN DAIL	Y DISCHAR	GB (CFS)			FIES	EL [WACC)	, TERAS	PATEISHE	r 1-6	
Day	Jan	Peb	Bar	Açı	Bay	Jnr	Jul	A ng	S€p	Cct	БСV	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.C
2	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
3	0-0	0.002	0.312	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.6	0.0
4	0.0	0.0	0-0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	C.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0
6	0.0	G.G	0.0	0.0	0.0	0.0	0.0	0.0	ŭ.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ε	0.0	0.0	0.0	0.0	0.0	0.0	0-6	0 - 0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0-0
10	0.0	0.0B5	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0
11	0.0	1.033	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
12	0.0	6.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.01B	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	6-9	0.317	0.0	0.0	0.0	0.5	0-0	0.0	0.0	0.0
16	0.9	9.0	0.0	0.367	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0
17	0.0	0.0	0.0	0.003	0.0	0.0	0.3	0.0	0.0	0.0	6.0	0.0
18	0.7	9 • O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	6.001	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.0	0.304	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0-0	0.120	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.727	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.302		0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0
31	0.002		0.0		0.0		0.0	0.0		0-0		0.0
SEAR	0.0007	0.0395	0.0053	0.0266	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.034	1.616	0.238	1.165	0.0	2.0	0.0	0.0	0.0	0.0	0-0	0-0
STA AV	0.288	C.3B8	0.380	0.703	0.722	0.573	0.152	0.04B	0.132	0.345	0.344	0.339

Station Averages: 34 yr beginning 1939 |part-year records rot included). Station not in operation July 1943 to Bay 1947.
Conversion Factor: CFS to IM/LAY, multiply by 1.460224.

1977 SELECTED BONOFF EVENT				FIFSEC	[WACC),	TFEAS SA	TEESBEC Y-	-ε
APPROVABLE CAMPIDIANO						FORCE		
Date Fainfall Enncff Bo-Day (inches) (inches)	Dat∈ Mo-Day	Time of Cay	Intensity in/br)	Acc. (inches)	Date Mo-Day	Tise of Day	Rate (cfs)	
	EVE	NT OF FEE	EDARY 10 -	11, 1977				
IG 0006SE		EG 000						
2-10 0.0 0.0	2-10	522	0.0	0.0	2-10	10 11		
		607 722	0.1067	30.0		1031	0.001	
				0.10		1049	0.001	
		752	0.0800			1106	0.001	
WATERSHED CCBCITIONS:		937	0.0	0.14		1126	0.002	0.0061
94% scrqbnm: 4% other:		10 22	0.0400	0.17		1153	0.003	0.0001
2% gravel roads. Cropland		1152	0.0400	0.17		1219		0.0002
terraced, cultivated on		1253	0.0590	0.29		1236	0.003	0.0002
contour.		1327	0.0EB2	0.34		1243		0.0002
CONTRACT.		1352	0.0480			1243		0.0002
		1332	0.0460	0.20		1-01	0.007	0.0063
		1552	0.0050	0.37		1321	0.013	0.0005
		1652	0.0500	0.46		1346	0.011	
		1737	0.1200	0.55		1427		0.0013
		1822	0.0933	0.62		1521	0.006	0.0017
		1852	0.1800	0.71		1606	0.003	0.0019
		1927	0.1029	0.77		1639	0.009	0.0021
		1952	0.0560	ũ. 81		1651	0.022	0.0023
		2022	0.0200	0.82		1703	0.039	0.0026
		2032	0.6000	0.52		1726	0.040	0.0036
		2047	0.6000	1.07		1741	0.059	0.0043
		2122	0.1029	1.13		1756	0.084	
		2222	0.0400	1.17		1816	0.082	0.0071
		2400	0.0306	1.22		1831	0.059	0.00H2
	2-11	52	0.0	1.22		1842	0.076	0.0089
		137	0.0533	1.26		1856	0.124	0.0103
		152	0.0400	1.27		1911	0.124	0.0122
		252	0.0700	1.34		1925	0.105	
		352	0.0400	1.38		1942		0.0158
		512	0.0525	1.45		2002	0.141	
		6 12	0.0600	1.51		2021	0.125	0.0210

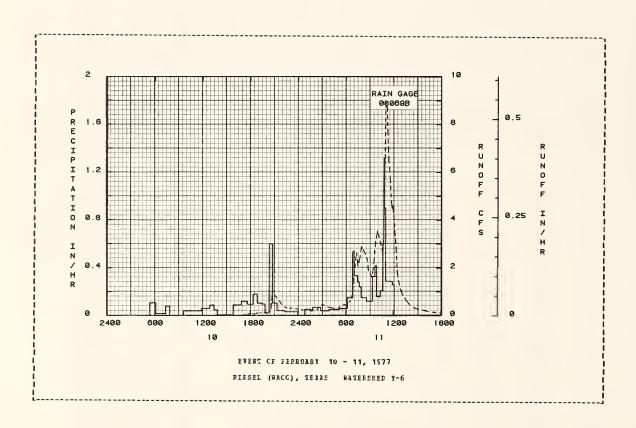
Conversion Factor: CFS to IB/BF, multiply by 0.080843.

	TECHE EDBO							IEXAS WAS		
BRIECED Cate Bc-Day	FBT CCBDIT Fainfall (inches)	Funcff (inches)	Date Bo-Cay	FAI Time of Cay	FALL Intersity (in/br)	Acc.	Dat∈ Mc-Day	FUNCED Time of Day	Fate (cfs)	Acc. (inches)
					10 - 11,			20.59	0.172	0.0222
			2-11	702	0.1500 0.5400 0.3360 0.2600 0.2400	1.70	2-10	2035	0.066	0.0000
				727 742	0.3380	1.64		2035 2046 2046 2051	0.828	0.0254
								20 5 1	1-022	0.0342
				837	0.1500 0.1200 0.3300 9.4200 0.1600	2.07		2056	1.007	0.0393
				922 942	0.1200	2.27		2121	0.711	0.0805
				952 1022	0.4200	2.34		2056 2107 2121 2141 2156	0.611	0.0741
				1042						
				1047	0.2100 0.6000	2.54		2217 2237 2256 2316 2342	0.312	0.0985
				1052 1102	1.3200 0.9000 0.2663	2.60		2316	0.305	0.1109
				1127	0.2883	2.92				
				1152	0.2880 0.2571	3.04	0-11	2400	0.267 0.249 0.256 0.247 0.225	0.1238
				1200	0.2-71	3.10	2-11	36	0.238	0.1334
								46 10 6	0.247	0.1358
								126	0.212	0.1450
								156	0.238 0.252 0.350 0.453	0.1519
								236	0.350	0.1828
								321 351	0.435	
								431	0.255	0.2067
								5 17	0.353	0.2205
									0.458	
								611 626		0.2443
								636 642	0.579	0.2562
								926		0.2/61
,								711 721	2.181	0.3018
								731	2.085	0.3503
								740	2.289	0.3701
								749 759	2.855	0-4155
								8 1 7 8 4 1		0.4707
								851		0.5598
								904	1.771	0.5786
								916 526	1.860	0.5994
								936	2.435	0.8389
								946 1001		0.8871
								10 20	2.0€2	0.7815
								10 37 10 46	2.67E 3.1E7	0.8316 0.8582
								10 5 1	4.514	0.8777
								1053 1057	5.35E 7.37E	0.6877 G.9137
								1102	6.937	0.9550
								1112	E. 697	1.0999
								1113 1116	6.395 7.686	1.0531
								1121 1123	6.843 6.588	1.1144
								1124	6.391	1. 1346
								1130	6.148	1-1727
								1137 1145	5.573	1.2143
								1151 1156	4.452	1.2842
								1201 1213	4.320	1.3256
								1222 1229	2.647 1.771	1.4037
								1236	1.608	1.4314

Conversion Factor: CPS to IB/85, Bultirly by 0.060842.

1977	SZL	ECTEL BUNO	FF EVENT				BIESEL	(WACC),	TEXAS WA	TEFSBEC Y-	6
A Nº Cat Uc-1	t€	BT CCMDIT Fainfall (irches)	TOBS Funcff [inches]	Dat∈ Bo-Day	FAI Time of Day	INFALL Intersity (in/hr)	ěcc. (inchés)	Fat∈ 8c-Eay	SUNCE Time cf Fay	Fat€	Acc. (inches)
				EVERT CF	FFEFOATY	10 - 11,	1977 (CC N	(110FE)			
								2-11	1241 1254 1311 1338	1.423 1.122 0.859 0.627	1.4391 1.4558 1.4729 1.4933
									1406 1438 1511 1601	0.431 0.324 0.272 0.200	1.5063 1.5205 1.5305 1.5425
									1656 1800	0.149 0.115	1.5522 1.5608
									1558 2400	0.080	1.5724 1.5883

Conversion factor: CFS to IN/BF, multiply by C.C60343.



42-014- 4

ICCATICN: Falls Co., Texas; 16 mi. SR of Waco; Erazos Fiver Basin. Lat. 31 deg. 20 min. 22 sec. N.; Long. 96 deg. 52 min. 54 sec. N.

AFFA: 20.80 acr∈s

	. D.T.H.T.B	. PRECIE.	TATICE	ABI FUNCE	I (TRCLE	>)			FIESFL (%)	ice), Th		ATESSHEL	. 1-0	
		Jan	F∈b	Ear	ytr	Eay	Jun	Jul	ang .	S€F	Cct	БСВ	D€C	èrrnal
1977	P Ç	2.72 3.120	4.26 0.864	3.93 0.050	5.66 1.618	0.58 0.0	1.91 0.0	0.0	ა.48 0.0	2.18 C.O	1.32	3.65 0.0	0.24	26.57 2.872
TA AV	P C	1.95	2.61 3.809	2.40 3.443	4.19 0.769	3.81 0.752	3.60 0.614	1.97 0.197	2.22 (.069	3.08 6.200	3.40 0.229	2.91 0.378	2.31 0.405	34.45 4.861
	ANNO	AL MEXI	HOH DISC	BAEGF in	/bi) BND	SPRINE	VCIUFE	S OF BUN	CFF inch	ES) EC3	SELECTE	r mias :	INTERVAL:	
		Bezi		1 Popr	າ				cr Select					
		Maxin Dischara Date	arge	1 Bopr Cat∈ Vol			6 Bc	UIS		1	Day	l 2 Day Dat∈		£ £ays t∈ Vol.
1977		Lisch	arg∈ Bat∈	Cat∈ Vol	. Date	Hours Vol.	6 Bc Dat∈	vrs Vcl. E	12 Ecors ate Vol.	1 Eate	Day Vcl.	2 Day Dat∈ 1	cl. Da	E Cays
1977		lisch: Oat∈	arg∈ Bat∈	Cat∈ Vol	. Date	Wc1. 0.305	6 Bc Cate 4-16	vrs Vcl. E	12 Ecnrs at∈ Vol. -16 0.73	1 Eate	Day Vcl.	2 Day Dat∈ 1	cl. Da	£ Cays t∈ Vol.

1977	D.	ALT PRECI	FITATICE	(INCHES)			BIRSI	EL (WACC)	, TEXAS	WATEFSHE	1-6	
Lay	Jan	P∈b	Ear	ytı	Eay	Jun	Jul	Aug	S€F	Cct	NC A	D€C
1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	0.0 0.13 0.39 0.0	0.0 0.32 0.04 0.0 0.0	0.0 0.0 1.43 0.08	0.0 0.0 0.0 0.22 0.0	0.0 0.0 0.0 0.0	0.65 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.51 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
6 7 8 9	0.12 0.0 0.02 0.0	0.0 0.0 0.0 0.0 1.39	0.0 0.3 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.7 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.28 0.35 0.0	0.0 0.0 0.0 0.0 0.89	0.0 0.0 0.0 2.07	0.0 0.0 0.0 0.0
1 11 1 12 1 13 1 14 1 15	0.0 0.0 1.00 0.0	2.33 0.0 0.0 0.0 0.0	0.26 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 2.65	0.0 0.0 0.0 0.0	0.09 0.0 0.38 0.09 1.06	0.3 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.10 0.0	0.0 0.0 1.55 0.0	0.03 0.0 0.0 C.0	0.0 0.0 0.0 0.0	0.0 0.0 0.09 0.0
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.91 0.0 0.03 0.0 1.11	0.0 0.0 0.0 0.03	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.12 0.0 0.09	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.0 0.31 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.32 0.0 0.0 0.0	0.0 0.12 0.12 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.17 0.0 0.0	0.0 0.0 0.0 0.0	0.11 0.29 0.0 0.0	0.0 0.0 0.0 0.16 0.0	0.0 0.0 0.0 0.0
26 27 28 29 30	0.0 0.0 0.0 0.3 0.83	0.11 0.0 0.0	1.17 0.99 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.76	0.0 0.0 0.0 0.0 0.0 0.16	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.81 0.10	0.0 0.0 0.0 0.15 0.0
TCTAL STA AV	2.72 1.95	4.28 2.61	3.53 2.40	5.68 4.19	0.58 3.81	1.91 3.60	0.0 1.97	0.48 2.22	2.16 3.08	1.32 3.40	3.65 2.91	0.24 2.31

Air Temperatures: See table for Watershed C, p. 42.002-1.
Gaging: Bain gage 75A.
Station Averages: 32 yr beginning 1939 (part-year records not included). Station not in operation July 1543 to Jan. 1, 1545.

Cooperative Research Project of OSDA and Texas Agricultural Experiment Station

42.016- 1

Natershed Conditions: 94% cotton; 2% gravel roads; 4% other. Cropland terraced and contour tilled; no charge in conservation practices.

Haps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Ent. 1194, p. 42.11-5 [revised).

Precipitation: Fecords began Barch 1, 1939. Data from rain gage 75%.

Funcif: Records tegan Warch 1, 1939. Station not in operation July 1943 to Jan. 1, 1949. Fart-year records not included in station averages.

Long-Term Frecipitation: Maticnal Weather Service records at Waco, Texas.

197	7 1	MEAN DAIL	Y LISCHAE	GE (CES)			FIES	EL (WACC)	, IEXAS	WATEFSHE	3-¥	~
Da y	Jan	P∈b	5ar	Apr	aay	Jnr	J t 1	A ng	Sep	Cct	NC V	D∈c
1	0.0 7	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.002	0.020 6.039	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0
u u	0.004	0.012	0.006	0.3	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0
5	0.001	0.004	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0
ε	0.004	0.001	6.8	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
7	0.001	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.001	0.0	0.0	0.0	0-0	9-0	0-9	0.0	0.0	0-0	9.0	0.0
9 18	0.001	0.0 0.190	0.0	0.0	0.0	0.0	0.0	0.0 9.0	0.0 ú.0	0.0	0.0	0.0
						0.0				0.3	0.0	0.0
11	r 0.5	0.371	0.0 T	0-0	0.0	0.0	0.0	9.0	0.0	0.9	0.0	0.0
12	0-001	0.097	0-0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.116	0.023	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0
14 15	0.041	0.005 0.0 I	0.0	0.0 0.315	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0-0
15	0.915	0.0 1	0.0	0.315	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.003	0.0	0.0	0.617	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0
17	0.002	0.0	0.0	0.059	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
18	0.001	0.0	0.0	0.007	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0
19 20	0.002	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.001	0.0	0.0	0.162	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0-0
21	0.031	0.0	0.0	0.932	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0
22	0.002	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.003	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0
25	0.001	0.0	0.0	0.6	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
2€	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0
30	0-029		0.0	0.001	0.0	0-0	0.0	0.0	0.0	0.0	9.0	0.0
3 1	0.023		0.0	3.001	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
EAN	0.0096	0.0276	0.0314	0.0471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BCHES	0.320	0.884	0.050	1.618	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TA AV	0.331	0.409	0.443	0.764	0.752	0.614	0.197	0.060	0.200	0.329	0.376	0-405

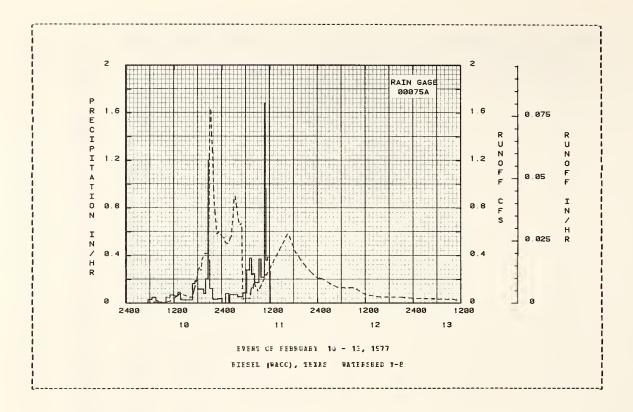
Station Averages: 32 yr beginning 1939 (part-year records rot included). Station not in operation July 1943 to Jan. 1, 1945. Conversion Factor: CFS to IN/FAY, multiply by 1.144510.

ARTEC	EDENT CONDIT	TCKS		FAT	INEALL			EURCE	F	
Dat∈ Mo-Day	Bainfall	Funcff (inches)		Tim∈	Intensity (in/hr)			Ti∎e	Bat∈	Acc. (inches)
			EVE	NT OF PEPI	EUARY 13 -	13, 1977				
	EG 00075A			EG 030						
2-10	0.0	0.0	2-10	527	0.0	0.0	2-10	506	0.0	0.0
				627	0.0300	0.03		713	0.006	0.0003
				727	U.0500	30.0		852	0.013	0.0010
				757	0.0200	0.05		10 14	0.008	0.0017
				957	0.0050	0.10		1110	0.024	0.0024
	D CCRLITIONS:									
14% ccttc				1057	0.0500	0.15		1219	0.048	0.0044
	ads; 4% cther			1157	0.0700	0.22		13 25	0.077	0.0077
	terraced, cul	ti-		1257	0.0600	0.26		16 10	0.046	0.0157
vated on	contour.			1336	0.0923	0.34		1640	0.051	0.0169
				1357	0.0286	0.35		1656	0.100	0.0179
				1636	0.0264	0.42		1721	0.152	0.0204
				1712	0.1667	0.52		1741	0.204	0.0232
				1756	0.1909	0.66		1800	0.277	0.0268
				1842	0.1174	0.75		1823	0.303	0.0321
				1927	0.1200	0.64		1840	0.260	0.0361
				1957	0.0600	0.68		1850	0.264	0.0383
				2032	0.2057	1.00		1902	0.373	0.0414
				2037	1.2000	1.10		1919	0.390	0.0466
				2057	0.3600	1.22		1946	0.423	0.0553
				2141	0-1227	1.31		2014	0.423	0.0647
				2256	0.0320	1.35		2031	0.404	0.0703
				2400	0.0375	1.39		20 39	0.528	0.0733
			2-11	57	0.0	1.35		2044	0.851	0.0760
				142	0.0600	1.45		2051	1.229	0.0816
				157	0.0	1.45		2056	1.498	0.0872
				357	0.0700	1.59		2101	1.631	0.0934
				5 17	0.0525	1.68		2111	1.620	0.1063
				612	0.0673	1.74		2122	1.431	0-1197
				657	0.2600	1.95		2141	1.258	0.1400
				727	0.3600	2.14		2157	0.945	0.1540

Conversion Eactor: CFS to IN/RE, multiply by 0.047660.

		FE EVENT							1 FF SEFT Y-	
ABTECEDEN Fate F	I CCNDII ainfall	ICMS Funcff	Dat∈	Tine	REALL Intersity (in/br)	Acc.	Dat€	Time	£ fat∈	Acc.
Bo-Day (irches)	(inches)	No-tay	cf tay	(in/br)	(inches)	ac-ray	of Day	(cfs)	(irches)
					10 - 13,					
			2-11	742	0.2400	2.20	2-10	2220	0.736 0.583 0.601 0.583	0.1693
				811	0.2483	2.32		2246	0.583	0.1830
				917	0.1727	2-51		2316	0.601	0.1571
				946 1041	0.3724	2.65		2400	0.565	0.2176
					0.2483 0.1727 0.3724 0.2182	2.63				
				1051 1101	1.6800 0.9600	3.17	2-11	16 40	0.548 0.548 0.515 0.459	0.2246
				1126	0.3600	3.48		51	0.515	0.2357
				1157	0.3871			130	0.455	0.2554
				1206	0.2667			225	0.571	0.2788
								246		0.2656
								303	0.867	0.3003
								321 346	0.505	0.3130
								416	0.682	0.3003 0.3130 0.3299 0.3476
								436	0.663	0 5585
								445	0.669	0.3652
								501	0.631	0.3714
								515 528	0.032	0.3751
								548	0.044	0.3761
								613 639	0.042	0.3769
								648	0.038	0.3780
								659		0.3784
								703	0.057	0.3785
								712		0.3789
								725		0.3800
								746		0.3822
								757	0.160	0.3035
								808		0.3849
								829	0.141	0.3875
								854 9 0 2	0.112	0.3907
								1828	0.104	0.5125
								1659		0.5266
								1759	0.467	0.5510
								1833	0.423	0.5631
								1645	0.418	0.5510 0.5631 0.5684
								1950	0.359	0.5872
								2113	0.295	0.6088 0.6312 0.6420 0.6483 0.6508
								2259 2 400	0.236	0.6312
							2-12	38	0.211	0.6420
							2 12	53	0.205	0.6508
								319		
								508	0.133	0.6845
								600	0.135	0.6719 0.6845 0.6900
								859	0.125	0.7085
								1207	0.074	0.7233
								1554	0.051	0.7348
								2101	0.046	0.7464
								2400	0.04/	

Conversion Factor: CFS to IM/HF, multiply by 0.047680.



42.016- 4

LCCATICR: Falls Cc., Temas; 18 mi. SB of Waco; Frazos Fiver Basin. Lat. 31 deg. 28 min. 51 sec. W.; Long. 56 deg. 53 min. 1) sec. W.

AREA: 18.60 acres

	BIBL I	. FRECIE.	TIALLEN	BUT LOW	CPF (IKC	,			FIESEL (%			TEFSHED		
		Jau	Feb	Bar	yŁi	Bay	Jun	Ju1	ħtg	S€F	Cct	BC V	D€C	Frinel
1977	ē ē	2.26 3.093	3.58 2.594	3.20 0.318	4.73 1.401	0.57 0.0	1.67 0.0	0.0	0.46 0.0	2.10	1.15 0.0	3.07 0.0	0.22	23.01
TA AV	g Q	2.0€ 0.3€S	2.50 0.462	2.32 0.519	4-32 3-942	3.88 0.7 €5	3.38 0.663	1.86 0.182	2.16	7.98 0.268	3.16 0.379	2.E1 0.416	2.32 0.402	33.44 5.493
	ANTO	DAL SEXIO	104 DISC	HAFGE	io/hr) A	OBIKAS 28	* VCIONE	S CF FO	KCEF linch	es) FOH	SELECTER	: TIEF I	BIEFVALS	
		Maxi Discha		1 800	 -				for Select				s 8	Cays
			arge	1 8ou Date V			6 Hc	crs		1	Day	2 Day		Cays ∈ Vol.
1577		Discha	arg∈ Sat∈	Date V	c1. 0a	2 Hcurs t∈ Vol.	6 Ho Date	vol.	12 Hours	1 Cate	Day Vcl.	2 Cay Cat∈ V	cl. Dat	€ Vol.
1977		Discha Dat∈ !	arg∈ Sat∈	Date V	c1. 0a	2 Hcurs t∈ Vol.	6 H c Cate 2-11	vol. 1	12 Hours Date Vol. 2-11 1.89	1 Cate	Day Vcl.	2 Cay Cat∈ V	cl. Dat	€ Vol.

Natershed Conditions: 949 fall planted oats; 39 gravel roads; 3% other. Cropland terraced and contour tilled; no change in conservation practices.

Naps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Fub. 1194, p. 42.11-5 (revised).

Precipitation: Records began July 1, 1939. Data from Thiessen weighted method using rain gages 65 and 698.

Runoff: Records began July 1, 1958. Station not in operation July 1942 to Pay 1, 1946. Part-year records not included in station averages.

long-Term Frecipitation:	National Weather	Service records	at Waco, Texas.
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1977	£.	ILY PERC	FITATION	(INCHES)			BIESE	I (SACC),	, TEXAS	WATERSHE	Y-10	
Lay	Jao	F∈b	Bar	AFr	Bay	Jnr	J t 1	Ang	S∈p	Cct	∦ C A	£€¢
1 1 2 2 1 3 4 1 5	0-0 0-14 0-41 0-0	0.0 0.27 0.03 0.0	0.0 0.32 1.10 0.0	0.0 0.03 0.02 0.11 0.0	0.0 0.0 2.0 0.0	0.03 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.41 0.0 0.0 0.0	0.0 0.0 0.0 0.0
6 1 7 1 8 1 9	0.11 0.0 0.03 0.0	0.3 0.0 0.0 0.0 1.21	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.9 0.92 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.36 0.25	0.0 0.0 0.0 0.0 0.76	0.0 0.0 0.0 1.84 0.0	0.0 0.0 0.0 0.0
1 11 1 12 1 13 1 14 1 15	0.0 0.0 0.77 0.0	1.88 0.0 0.0 0.0 0.0	0.17 0.0 0.0 0.0	0.0 0.0 0.0 0.0 2.18	0.0 0.0 0.0 0.0	0.19 0.02 0.34 0.02 0.98	0.0 0.0 0.0 0.0	0.0 0.0 0.02 0.10	0.0 0.0 1.45 0.0	0.05 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0∈ 0.0
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.89 0.0 0.03 0.03 0.91	0.0 0.0 0.0 0.04 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.13 0.0 0.11	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 22 23 24 25	0.04 0.08 0.0	0.0 0.0 0.09 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.32 0.0 0.0 0.0	0.0 0.07 0.02 0.0	0.0 0.0 0.0 0.0	0.0 0.10 0.0 0.0	0.0 0.0 0.0 0.0	0.10 0.24 0.0 0.0	0.0 0.0 0.0 0.10	0.0 0.0 0.0 0.0
26 27 28 29 30	0.0 0.0 0.0 0.0 0.68	0.10 0.0 0.0	1.03 0.88 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.19	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.63 0.09	0.0 0.0 0.0 0.16 0.0
TCTAL STA AV	2.26 2.06	3.58 2.50	3.20 2.32	4.73 4.02	0.57 2.88	1.67 3.38	0.0 1.86	0.48 2.16	2.10 2.5E	1.15 3.16		0.22

Cooperative Research Project of USDN and Texas Agricultural Experiment Statics

Air Temperatures: See table for Matershed C, p. 42.002-1.
Gaging: Thiesser weighted average of rain gaces 65 and 65E.
Staticu Averages: 35 yr beginning 1938 (part-year records not included). Staticu not in operation July 1543 to
Bay 1946.

197	7	MEAN DAIL	Y CISCRAR	GE (CFS)			FIES	EI (WACC)	, TEXAS	WATERSHE	E Y-10	
Da y	Jan	F ∈b	Bar	Apr	řay.	Jur	Jul	Aug	Sep	Cct	Nev	[ec
1	0.0	r 0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.006	0-3	0.5	9.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	J.J29 J.005	0.033	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
5	0.0	0.005	0.001	0.0	0.0	0.0 0.0	0.0 2.0	0.0	0.0	0.0	0.0	0.0
5	0.0	3.9	9.3	0.0	0.0	0.0	3.0	0.0	9.0	9.0	0.0	0.0
€	9.4	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.0	ü.0	0.0	0.0
7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	U . C	0.0	0.0	0.0
E	0.6	0.5	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	9.338	9.0	1.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
11	0.0	1.623	0.)	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
12	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	3.845	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0
14	0.015	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.003	0.0	0.0	U. 172	0.0	0.0	0.9	0.0	9.0	0.0	0.0	0.0
16	9-0	0.0	0.0	9.630	ú - 0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	J.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0 - 1)	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.255	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.014	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	9.ü	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.6	0.002	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.0
27	0.0	0.0	0.126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0€€	0.0	0.0	0.0	0.2	0.0	9.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.007		0.3	0.0	0.3	0.0	0.0	3.0	0.6	0.0	0.0	0.0
31	0.003		0.0		0.0		0.3	0.0		0.0		0.0
MEAN	0.0024	0.0724	0.0380	0.0365	0.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0
INCHES	0.093	2.594	0.318	1.401	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VA AFE	0.385	0.462	0.514	0.942	9.765	U. 663	0.182	0.074	0.268	0.379	0.416	0.442

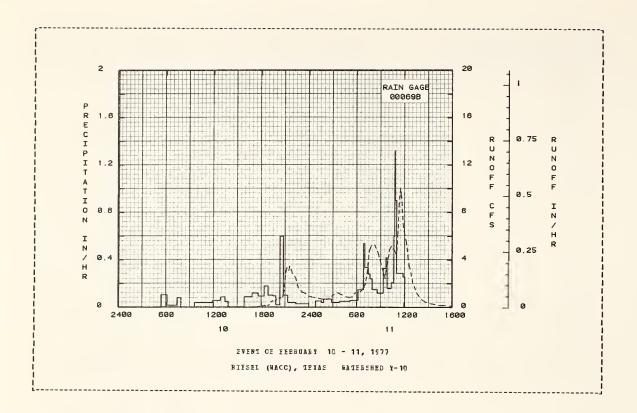
Station Averages: 35 yr beginning 1938 (part-year records not included). Station not in operation July 1943 to May 1946.
Conversion Factor: CFS to IN/DAY, multiply by 1.279659.

977 SELECTED BUNGER EVENT			. 	FIESEL	(WACC),	IBRAS WAS	FESHEL Y-	10
ANTECEDENT CONDITIONS		5 A 3	INFALL			FUNCE	E	
Cate Fainfall Funcff			Intensity				Fate	Acc.
Fo-Day (inches) (inches)	Mo-Day	of Cay	(in/hr)	(inches)	Ec-Day	of Cay	(cfs)	(inches)
	EVE	NT OF FEE	30ARY 10 -	11, 1577				
EG 00065E		EG 300	SE					
2-10 0.0 0.3	2-10	5 2 2	0.0	0.0	2-10	1329	0.0	0.0
		607	0.1067	0.08		1345	0.002	0.0000
		722	0.0160	J. 10		1406	0.00€	0.0001
		752	0.0600	0.14		1424	0.009	0.0302
		937	0.0	0.14		1445	0.010	0.0004
WATERSHED CONDITIONS:								
94% fall planted oats;		1022	0.0400	0.17		15 15	0.010	0.0006
3% gravel roads: 3% other.		1152	0.0400	0.23		1546	0.00€	0.0005
Cropland terraced, contour		1253	0.0590	0.29		1643	0.009	0.0013
cultivation.		1327	0.0682	0.34		1705	0.015	0.0016
		1352	0.0480	0.36		1724	0.053	0.0021
		1552	0.0050	0.37		1749	0.081	0.0036
		1652	0.0500	0.46		1809	0.125	0.0055
		1737	0.1200	0.55		1834	0.163	0.0087
		1622	0.0533	0.62		1848	0.158	0.0107
		1852	0.1800			1902	0.233	0.0132
		10.22	0.1000	0.71		1302	0.233	0.01-2
		1927	0.1029	0.77		1914	0.457	0.0168
		1952	0.0560	0.61		1929	0.565	0.023€
		20 22	0.0200	0.82		1945	0.548	0.0316
		20 32	0.€000	0.52		1958	0.655	0.0367
		2047	0.€000	1.07		2015	0.778	0.0499
		2122	0.1029	1.13		2029	0.792	0.0596
		2222	0.0400	1.17		2044	0.905	0.0709
		2400	0.0306	1.22		20 5 4	1.442	0.0814
	2-11	52	0.0	1.22		2100	2.335	0.0915
		137	0.0533	1.26		2107	3.029	0.1082
		152	0.0400	1.27		2115	3.371	0.1309
		252	0.0700	1.34		2128	3-116	0.1664
		352	0.0400	1.36		2136	3.465	0.1918
		512	0.0525	1.45		2156		0.2462
		612	0.0600	1.51		2219	2.535	0.3033

Conversion Factor: CFS to IN/EE, multiply by 0.053319.

	LECTED FUEC								TEFSEEL Y-	
ANTECED	BET CCEDIT	CICKS	D - 4 -	FAI	BPALL			EUNCE	F	
Bo-Day	BNT CCEDIT Fainfall (irches)	(incles)	Bo-Day	of Lay	(in/br)	(inches)	Bc-Day	of Lay	(cfs)	(inches)
				FFFFUAFY						
			2-11		0.1500	1.61 1.70 1.84 1.91 1.97	2-10	2241	1.631	0.3440
				732 727	0.5400	1.70		2309	1.307	0.3606
				742	0.2800	1.91		2400	0.953	0.4326
				757	0.2400	1.57	2-11	24	0.890	0.4523
				837 922	0.1500	2-07		38	0.851	0.4631
				942	0.3300	2.27		121	0.736	C.4932
				952 1022	0.1200 0.3300 0.4200 0.1600	2.34		150 215	0.851 0.814 0.736 0.669 0.695	0.5113
				1047	0.2100	2.54		252	0.743 0.937 1.108 1.238 1.037	0.5520
				1052 1102	1.3200	2.65		312	1.108	0.5962
				1127	0.2880	2.92		414	1.037	0.6336
				1152 1206	0.266J 0.2571	3.04		455 528	3.644	0.6679
				1200	0.2271	2.10		546	0.698	0.7101
								600 627	1.297 1.337	0.7256
								638 649	1.431	0.7707
								707	1.577	0.8101
								72 1 735	1.431 1.557 1.577 2.875	0.8443
								752		
								€16	5.2€€	0.9667 1.0767 1.2008
								844 907	4.550	1.2008 1.2843
								930		1.3490
								937	2.444	1.3650
								945 957	3.188	1.3851
								10 10	4.859	1.4226 1.4732
								10 24	5.191	1.5360
								1045 1102		1.6297
								1112	4.437 6.108	1.7467
								1122 1131	6.108 8.831 10.042	1.8131
								1140		1.9655
								1151	7-034	2.0448
								1200	6.360	2.0983
								1215 1232		2.1780 2.2507
								1237	3.581	2.2676
								1245 1306	3.242	2.2676 2.2919 2.3413
								1338	1.181	2.3873
								1416	0.650	2.4182
								1449 1526	0.423	2.4340
								1624	0.322	2.4462
								1714 1800	0.156	2.4676
									0.122	2.4/22
								2009	0.109	2.4881

Conversion Factor: CFS to 18/8F, sultiply by 0.053319.



42.017- 4

ICCATION: Falls County, Texas; 19 miles scutheast of Waco; Frazos Fiver Easin. Lat. 31 deg. 26 min. 02 sec. K.; Iong. 96 deg. 55 min. 04 sec. 6.

AFFA: 2.66 acres

8.0	THE	Y PFECIP	ITATICN	ANE TON	FF (INCE	S)			BIE	SEL WA	CO), TEX	AS SW	- 11		
		Jan	F€b	far	Apr	Bay	Jnn	Jo1	Þtg	S∈ F	Cct	yc v	Γ∈o		7rruel
1977	P Q	2.29 0.017	3.51 2.)91	3.32 0.229	4.84 1.803	0.58	1.73	0.0	0.50 0.0	1.63	1.17 0.0	3.14 0.0	0.2		23.12 4.140
STA AV	P Ç	1.91	2.56 0.561	2.36 0.482	3.59 3.433	3.34 0.292	3.52 0.747	2.15 0.054	2.29 0.005	3.21 0.413	3.86 0.653	3.03 0.76			34.29 5.227
	PRRA	Cisch			in/hr) ANI		Maxieus	Vclus∈ f	cr Select	ed Time	Interva	1			Lays
		Uat∈	Bat€	Uat∈ V	ol. Date	Vol.	Eat€	Vol. [at∈ Vol.	Cat∈	Vcl.	Date	vcl.	Uat	€ Vol.
1977		2-11	0.632	2- 11 - 2	525 2-1	0.609	2-11	1.589 2	-11 1.80	4 2-10	1.917	2-10	2.003	2-	5 2.071
						HARISUS:	S POR P	FICU OF	EECCED						
		10 +31	6.67)	6- 3 2. 1973	497 6- 197		10-31		-31 3.49	2 10-30	3.779	11-22	5.900	11-2	

Natershed Conditions: 96% snower hay crop and fall planted oats; 2% roads.

Maps: Topographic/Bydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968,
USDA Misc. Ful. 1379, p. 92.223-5.

Precipitation: Fecords began March 1938. Uata from rain gage 65.

Runoff: Records began March 1938. Station discontinued July 1542, reestablished July 1, 1965, and not in operation during 1575. Fart-year records included in station averages.

Long-Term Frecipitation: National Weather Service records at Waco, Texas.

1977	0.1	ILY PRECI	FITATICE	(IBCHES)				BIESEL	(WACC), T	ERAS SW-	11	(
Day	Jan	F∈b	đar	Apr	Hay	Jor	Jn1	λυς	S€p	Cct	Bc▼	Γ€C
1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	0.0 0.13 0.24 0.0	0.0 0.27 0.04 0.3	0.7 0.0 1.25 0.0	0.0 0.0 0.0 0.17 0.0	0.0 0.0 0.0 0.0	0.05 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.44 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
(0.0 0.0 0.0 0.0	0.9 0.9 0.9 0.0 1.30	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0	0.0 0.0 0.17 0.33 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 1.77	0 - 0 0 - 0 0 - 0 0 - 0
1 11 1 12 1 13 1 14 1 15	0.0 0.9 0.94 9.0	1.79 0.3 0.3 0.9 0.9	0.17 9.9 0.0 0.7 0.0	0.0 0.0 0.0 0.0 2.26	0.0 0.0 0.0 0.0	0.12 0.05 0.22 0.0 1.06	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.11	0.0 0.0 1.33 0.0 0.0	0.04 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.07 0.0
1 16 1 17 (18 1 15 1 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 7.7 0.0 0.0	0.85 0.0 0.02 0.0 0.99	0.0 0.0 0.0 0.03	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.12 0.0 0.09	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0
1 21 1 22 1 23 (24 1 25	0.0 0.06 0.09 0.0	0.9 0.7 0.26 9.9	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.32 0.0 0.0 0.0	0.0 0.12 0.11 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.18 0.0 0.0	0.0 0.0 0.0 0.0	0.13 0.23 0.0 0.0	0.0 0.0 0.0 0.12	0.0 0.0 0.0 0.0
26 27 28 29 30	0.0 0.0 0.0 0.0 0.62 0.0	0.25 0.0 0.0	1.07 0.83 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.5	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.75 0.06	0.0 0.0 0.0 0.14 0.0
TCTA1	2.29 1.91	3.51 2.56	3.32 2.36	4.84 3.59	0.58 3.34	1.73 3.52	0.0 2.15	0.50 2.29	1.83 3.21	1.17 3.88	3.14 3.03	0.21 2.48

Air Temperatures: See table for Watershed C, p. 42.002-1.
Gaging: Bain gage 85.
Station Averages: 14 yr beginning 1938 [part-year records included]. Station discontinued July 1543, reestablished
July 1, 1969, and not in operation during 1578.

Cooperative Research Project of OSCA and Texas Agricultural Experiment Station

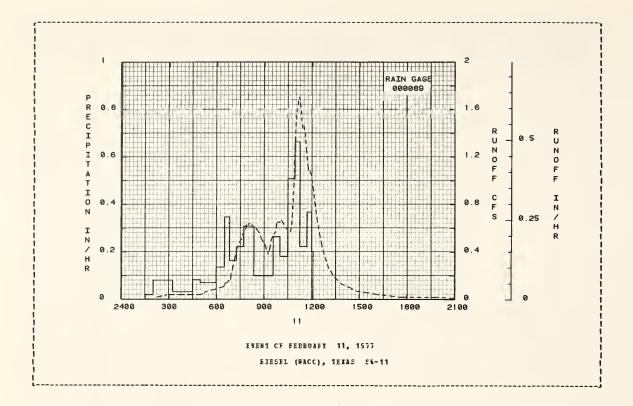
157	7	MEAN DAII	Y LISCHAR	GE (CES)				RIESEL	(RACC), I	EXAS SW-	11	 -
Day	Jan	P€b	Bar	Apr	May	Jun	Jul	Aυç	Sep	Cct	Bic∀	£€c
1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0
4	0.0	0.0	0.3 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	G.O
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ç	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.007	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.213	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	9.3	0.007	0.0	0.3	6.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 1	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.099	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	6.3	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
21	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.0	0.902	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
28	0.0	0.0	0.208	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
30	9.001		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	r 0.0		9.0	,	0.0		0.0	0.0	_	0.0		0.0
EAN	0.0001	0.0183	8060.0	0.0067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHES	0.017	2.391	0.229	1.803	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
IA AV	0.317	0.561	0.482	0.433	0.292	0.747	0.054	0.005	0.413	0.653	0.761	C.52

Station Averages: 14 yr beginning 1938 (part-year records included). Station discontinued July 1943, reestablished July 1, 1969, and not in operation during 1976. Conversion Factor: CFS to IN/CAY, multiply by 8.547990.

SELECTED RUBOR				INEALL			FUNCE	 F	
Dat∈ Fainfall	Runcff		line	Intensity			lise	Fate	
Bo-Day (inches)	(inches)	Bo-Day	of Lay	(in/hr)	(inches)	Ec-Day	of Cay	(cfs)	(inches)
		E	VENT OF F	EBRUARY 11	, 1977				
FG 000JE9			EG 0036	89					
2-11 0.0	0.020	2-11	130	0.0	0.0	2-11		0.024	0.0
			200	0.0200			234	0.034	0.0036
			314	0.0811			245	0.034	0.0059
			430	0.0316	0.15		250	0.035	0.0070
			459	0.0€28	0.19		259	0.041	0.0091
THESHED CONTITIONS: snumer hay crop and	6011		550	0.0709	0.26		320	0.040	C-0144
nted cats: 2% roads.			630	0.1355	0.26		344	0.040	0.0204
nted Cats; 2% Todas.			649	0.1333	0.44		420	0.041	0.0292
			715	0.1615	0.51		459	0.036	0.0380
			742	0.2222	0.61		509	0.052	0.0407
			. 72	(*2222	0.01		302	0.0.2	0.040.
			821	0.3077	0.81		5 1 5	0.062	0.0429
			534	0.0586	0.93		526	0.072	0-0474
			959	0.2640	1.04		544	0.081	0.0560
			1029	0.1800	1.13		559	0.086	0.0638
			1055	0.5077	1.35		614	0.100	0.0725
			1114	0.6632	1.56		€29	0.114	0.0824
			1141	0.2222	1.86		631	0.120	0.0839
			1159	0.3667	1.77		634	0.136	0.0863
			1205	0.2000	1.79		639	0.140	0.0906
							648	0.162	0.0990
							653	0.174	0.1042
							656	0.218	0.1075
							700	0.255	0.1137
							704	0.294	0.120€
							709	0.339	0.1304
							714	0.410	0.1420
							7 20	0.449	0.1580
							728	0.493	0.1815
							735	0.514	0.2034
							739	0.552	0.2166

Conversion Factor: CFS to IN/HF, unltiply by .372833.

110000	DET CORRE	TCAC		577	A E A F T			FUNCFI	:	
Bo-Day	Fainfall (irches)	Funcff (inches)	Dat∈ Bo-Cay	Tire of Cay	Intersity (in/hr)	Acc. (inches)	Dat∈ āc-Day	Time of Cay	Fat∈ (cfs)	åcc. (icches)
			EVENT (CF FFEFU#F	Y 11, 1977	(CCP11)	(JEC)			
							2-11	744	0.584	0.2343
								745	0.591	0.2525 0.2676
								600	0.634	0.2951
								804	0.€39	0-3109
								812	0.625	6.3423
								82 0 83 1	0.606	0.3729
								640	0.559	0.4452
								849		C-4755
								934	0.445	0-5204
								913 916	0.353	0.5440
								921	0.432	0.5639
								925	0.450	0.5753
								931	0.530	0.5943 0.6145 0.6355
								943	0.575	0.6355
								947 95 0	0.635	0.6506 0.6626
								1000	0.651	0.70 E1 0.7195
								10 14	0.634	0.7600
								1022 1030	0.601	0.7907
								1040	0.629	0.8557 0.8706 0.8832
								1047	0-727	0. EE32
								1053	1.136	0.9171
								10.56	1, 340	0.9402 0.9666 1.0046
								1059	1.491	0.9666
								1103 1108	1.582	1.0046 1.0553
								1111	1.69€	1.0867
								1115	1.675	1.1286
								1118	1.586	1.1590
								1124	1.443	1.2153
								1129	1.463	1.0867 1.1266 1.1590 1.1676 1.2153 1.2604
								1134	1.369	1.3044 1.3371 1.3744 1.3952 1.4289
								1138	1.259	1.3371
								1146	1.091	1.3952
								1158	1-040	1.4749 1.5118 1.5498
								1211	0.807	1.5498
								1215	0.679	1.5867
								1229		1.6250
								1239	0.438	1.6557 1.6760
								1301	902.1	10 /0 /0
								1329 1352	0.181	1.7439 1.7865
								1424 1449	0.05E 0.072	1.7895 1.8027
								1524	0.056	1. 6166
								1614 1659	0.03E 0.02E	1.8312 1.8405
								1734 1759	0.024	1.8461 1.8497
								2000 2158	0.017	1.8644
								2400	0.012	1. 8858



42.023- 4

LOCATICE: Eclevran Co., Texas; 18 mi. SE of Waco; Prazos Fiver Fasio. Lat. 31 deg. 28 min. 46 sec. B.; long. 56 deg. 52 mio. 55 sec. W.

ABEA: 2.97 acres

E (CKIHL	PEECLE	ITATICE	Abi FUNC	EE (INCEE	٤)			Fleset W	ACO), T	XAS W	ATEFSHEC	SW-12	
		Jau	P∈b	tar.	Apr	tay.	Jun	Jul	109	S€ŗ	Oct	B c V	D€C	Attual
1977	P Q	2.07 1.126	3.64 3.033	3.35 2.185	4.EJ 2.376	0.54	1.53	0.0	0.45	1.97	1.28	2.59 0.0	0.22	22.99 6.720
SIA AV	P Q	2.04 J.455	2.58 0.690	2.27 0.570	4.04 0.797	3.81 0.665	3.45 0.445	1.87	2.11 0.016	2.9€ 0.118	3.16 6.153	2.80 0.249	2.29	33.38 4.826
		Baxi Disch		1 Bour		Boors	Saxinus 6 Bc		cr Select		Int∈rva Day	l Z Cay	c (rass
		Disch Dat∈		1 Bour Cat∈ Vo		Bcors Vcl.			12 Bcors at∈ Vol.		Vol.	Z Cay Cat∈ V		rays ∈ Vol.
1977		2-11	0.789	2-11 0.	471 2-11	0.708	2-11	1.495 2	-11 1.81	7 2-10	2.712	2-10 2	.EOE 2-	
1977		2-11	0.789	2-11 0.	471 2-11		2-11 FOR FE			7 2-10	2.712	2-10 2	.EOE 2-	

Watershed Conditions: 1001 mative grass meadow mowed annually for bay.

Maps: Topographic/8ydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States,
1956-55, USDA Bisc. Pub. 945, p. 42.24-4.

Precipitation: Records began Jan. 1, 1938. Data from rain gage 70.

Bunoff: Becords began Jan. 1, 1938. Station not in operation July 1543 to June 1, 1947. Fart-year records not
included in station averages.

Long-Term Precipitation: Maticual Weather Service records at Waco, Texas.

157	7 C	WILL BEEC	IFITATION	(IBCBES)			BIES	SI (MVCC)	, TEXAS	WATERSBEI	SW-12	
Day	Jan	P€b	Bar	Apr	tay	Jur	Jtl	Aug	S∈p	Cct	bcv	D∈c
1	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.42	0.0
2	0.10	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J	0.25	0.03	1.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	2-0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
6	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0_0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0
\$	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	1.73	0.0
10	0.0	1.20	0.0	0.0	0.0	C.0	0.0	0.0	0.0	0.86	0.0	0.0
11	0.0	1.96	0.21	0.0	0.0	0.17	0.0	0.0	0.0	0.05	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0
13	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.42	0.0	0.0	0.05
14	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.11	0.0	G.0	0.0	0.0
15	0.0	0.0	0.3	2.22	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0
19	0.0	0.3	0.0	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.3	0.0	0.91	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	Ú.0	0.32	0.0	0.0	0.0	0.0	0.13	0.0	0.0
22	0.04	0.0	0.0	0.0	0.0	0.16	0.0	0.05	0.0	0.24	0.0	0.0
23	0.07	0.13	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0
25	C.O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.10	1.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.85	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.13
30	0.69		0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0
31	0.0		0.0		0.20		0.0	0.0		0.0		0.0
TOTAL	2.02	3.64	F.35	4.60	0.54	1.53	0.0	0.45	1.97	1.26	2.59	0.22
STA AV	2-04	2.58	2.27	9.09	3.81	3.45	1.87	2.11	2.5€	3.16	2.80	2.29

Air Temperatures: See table for Watershed C, p. 42.002-1.
Gaging: Bain gage 70.
Station Exerages: 35 yr beginning 1938 (part-year records not included). Station not in operation July 1942 to June 1547.

Cooperative Besearch Project of OSDA and Texas Agricultural Experiment Station

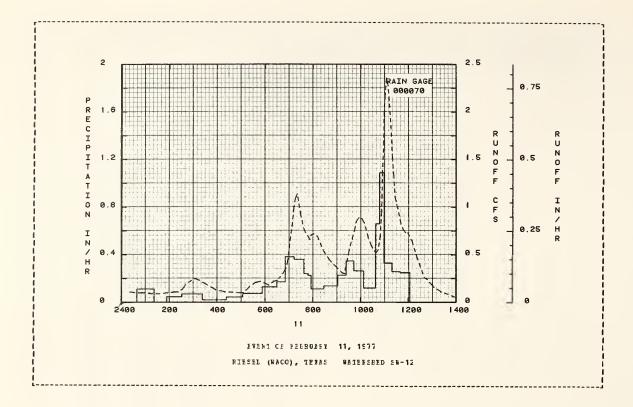
197	7 (BEAN DAIL	Y EISCHAR	GE (CES)			FIESE	L (WACC)	, TEXAS	WATEFSHE	C S&-12	
Cay	Jan	E∈b	Ħar	AFI	#ay	Jun	Jnl	Δug	S€p	Cct	No.	Lec
1	0.0 7		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0
2	0.003	0.015	0.0	0.0	0.0	0.0	0.0	9.0	ŭ. O	0.0	0.0	0.0
3	0.006	0.012	0.139	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.002	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0-0	6.0	0.0
Ë	0.0 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.001	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
9	5.001	0.0	0.0	0.0	3.8	0.0	C.0	0.0	0.0	0.0	0.0	0.0
10	0.001	0.110	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.001	0.240	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3	0.066	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.003	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.09B	0.0	0.0	0.0	0.0	0.0	0.0	C.O	0.0
17	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.088	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	Ŭ. O	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.6	0.0	0.0
23	0.0	0.C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.086	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.006	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.036		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 1	0.009		0.0		0.0		0.0	0.0		0.0		0.0
DEAN	0.0045	0.0135	0.3368	0.0099	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES		3.033	2.165	2.376	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIA AV	0.495	0.690	0.670	0.797	0.665	0.445	0.10€	0.016	0.118	0.153	0.249	0.424

Station Averages: 35 yr beginning 1938 (part-year records not included). Station not in operation July 1943 to June 1947. Conversion Factor: CFS to IN/DAY, multiply by 6.014025.

ANTECEDENT CONDITIONS		FA:	KFALI			EUNCE		
<pre>tate Fainfall Funcff fo-Day (irches) (inches)</pre>			Intersity (in/hr)				Fate (cfs)	Acc. (inches)
		PEKT CP E	EEROARY 11	1977				
	-			, ,,,,				
EG 000370 2-11 0.0 0.013	2-11	FG 0000	0.0	0.0	2-11	21	0.110	0.0
2-11 0.0 0.013	2-11	121	0.1116	30.0	2 (1	33	0.100	0.0076
		153	0.0	30.0		43	0.103	0.0127
		231	0.0474	0.11		58	0.097	0.0210
		323	0.0692	0.17		117	0.066	0.0307
WATERSHED CONTITIONS:		223	0.0052	9-17		117	0.000	0.0307
00% native grass meadow,		423	0.0200	0.19		136	0.051	0.0400
2 to 14 inches, dormant.		504	0.0439	0.22		156	0.057	0.0505
2 to 14 inches, octmant.		553	0.0735	0.26		212	0.108	0.0596
		630	0.1297	0.36		222	0.111	0.0657
		651	0.1714	0.42		233	0.145	0.4736
			0.1714	0.42		233	0.14.	0.07.0
		713	0.3618	0.56		241	0.190	0.0810
		738	0.3600	0.71		248	0.209	0.0888
		748	0.2400	0.75		255	0.234	0.6574
		756	0.2250	0.78		304	0.255	0.1057
		€28	0.1125	0.84		316	0.232	0.1259
			*******				*****	
		903	0.1371	0.52		336	0.160	0.1489
		924	0.2286	1.00		357	0.135	0.1673
		943	0.3474	1.11		421	0.112	0.1638
		1008	0.2640	1.22		454	0.097	0.2030
		1038	0.1200	1.28		506	0.056	0.2095
		1048	0.6600	1.39		513	0.133	0.2140
		1059	1.0909	1.59		522	0.171	0.2216
		1119	0.3300	1.70		536	0.209	0.2364
		1140	0.2571	1.79		549	0.218	0.2518
		1204	0.2500	1.69		559	0.19€	0.2634
		1230	0.0	1.69		610	0.177	0.2746
						621	0.217	0.2868
						631	0.234	0.2994
						634	0.246	0.3034
						638	0.274	0.3092

Conversion Factor: CFS to IN/BE, unltiply by 0.333918.

7 SELECTED EDNOFF EVENT				FIESEL (WACC), TERAS WATERSORD SW-12							
ANTECEDENT CONDITIONS Date Fainfall Eunoff		FAINPALI Date Time Intensity Bo-Day of Cay (in/br) (i			Ècc.	Eat€	FUNCE Tise	FUNCEE Time Fate			
Eo-Day	(inches)	(inches)	ño-Day	of Cay	(ic/br)	(inches)	#c-Day	of Day	(cfs)	(incles)	
					Y 11, 197						
			2,201		,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2-11	6116	0.311	0 3333	
							2-11	653	0.361	0.3353	
								658	0.461		
								708		0.3823	
								712	0.561	0.4022	
								716	1.091	0.4252	
								721 729	0.533	0.4563	
								737	0.780	C.5406	
								742		0.5615	
								753 756	0.664 0.706		
								803	0.717	0.6433	
								€12	0.691	0.6785	
								827 841	0.536		
								857	0.363	0.8055	
								9 14 9 2 0		0.8381 0.8482	
									0.369		
								924	0.389		
								939 945			
								949		0.9429	
								956	0.886	0.9767	
								1003	0.876	1.0111	
								1010 1020	0.671		
								1030	0.570	1.1205	
									0.519		
								1045 1050	0.550	1.1656	
								1052	0.870	1.1921	
								1053	0.942	1.1971	
								1054 1055		1.2029 1.2098	
								1058	1.658	1.2349	
								1059 1102		1.2451	
								1105 1108	2.313	1.3181 1.3572	
								1112 1117		1.4065	
								1120		1.4883	
								1123	1.342	1.5122	
								1127	1.095	1.5393	
								1134 1142	0.818	1.5797 1.6197	
								1148	0.758	1.6460	
								1154		1.6709	
								1159 1210		1.6912	
								1222 1231		1.7703	
								1241 1248	0.265	1.8089 1.8187	
								1305	0.157	1.8374	
								1324 1350	0.109 0.072	1.8514	
								1419	0.051	1.8745	
								1515	0.029	1.8869	
								1546 1630	0.021	1.8912 1.8955	
								1759	0.005	1.5002	
								1950	0.005	1.9033	
								2400	0.003	1.9089	



42.024- 4

FIESEI (MACO), TEXAS WATERSHED SE-17

LCCATICE: Falls Co., Texas; 19 mi. SE of Waco; Prazos River Basin. Tat. 31 deg. 27 min. 45 sec. 8.; Long. 96 deg. 53 min. 14 sec. W.

2.99 acres AREA:

5(PIHLE	A BRECIE	MOIFETI	ANT FON	OFF (II	NCEFS)			PIESEL	(WACC), I	EXAS W	ATEBSHE	E 59-17		
		Jap	P∈b	ēar	Fr		ľау	Jun	Ju l	2 u g	£€ŗ	Oct	NC V	L€C	ž	rrual
1977	P Q	2.32 0.395	3.47 2.766	2.19 0.496	4.50 1.40		0.63 0.0	1-61	0.0	0.36 0.0	1.73 0.0	1.05 0.0	3.23 0.0	0.22		2.39 5.139
VA AF	P Ç	1.56 0.440	2.61 0.713	2.30 0.669	4.1		3.76 0.608	3.39 0.734	1.96	2.27 0.079	3.08 0.299	3.34 0.395	2.91 0.508	2.32 0.566		4.05 6.495
	2830	Bazi	=	-			<u>8</u>	azisur	Vclume i	i for Sele	ches) FCB	 Int∈r⊽a	1			
	7 1 3 1		 mum arge	1 Bcu Date V	r	2 B	<u>8</u>	aximur E Bc	Vclume i	i for Sele	cted Time	 Int∈r⊽a	1 2 Ca	y s	 Е Е	ays Vol.
1977	2830	Mazi Disch	mum arg∈ Bat∈	1 Bcu Cate V	r ol.	2 B	curs Vcl.	arimur 6 Bc Date	Volume in vis	for Sele 12 Four Cate Vo	cted Time	Interva Day Vol.	1 2 Ca Cate	ys Vcl. !	€ C Date	Vol.
1977	2830	Bazi Disch Date	mum arg∈ Bat∈	1 Bcu Cate V	r ol.	2 Bo Date 2-11	curs Vcl.	aximur 6 Bc Date	Volume in vis	for Sele 12 Four Cate Vo	cted Times 1. Cate	Interva Day Vol.	1 2 Ca Cate	ys Vcl. !	€ C Date	Vol.

Tatershed Conditions: 100% Fermudagrass pasture.

Maps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States,
1556-25, USTA Misc. Pub. 945, p. 42.26-2.

Precipitation: Records began Feb. 1, 1939. Lata obtained from rair gage W-2.

Zunoff: Records began Feb. 1, 1535. Station not in operation July 1543 to Jan. 1, 1948. Fart-year records not included in station averages.

Long-Term Frecipitation: Maticnal Weather Service records at Waco, Texas.

1977	7 D	AILY PREC	ROLLELIS	(INCBES)			BIES	EI (WACC)	, TEXAS	WATEESBE	SW-17	
Day	Jan	F∈b	ðar	Apr	tay	Jur	Jul	Aug	S∈₽	Oct	Bcv	rec
1	0.0	0.0	0.3	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.42	0.0
2	0.16 0.29	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C.O	0.0
-	0.29	0.06	1.22	0.0 0.13	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
ε	0.07	0.0	0.0	ù.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.6	0.9	0.0	0.0	0.08	0.0	0.0	0.0	0.19	0.0	0.0	0.0
9	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.27	0.0	1.86	0.0
10	0.0	1.19	0.0	0.0	U. 0	0.0	0.0	0.0	0.0	0.72	0.0	0.0
11	ŭ. 0	1.88	0.17	0.0	0.0	0.27	0.0	0.0	0.0	0.03	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
13	0.95	0.0	0.0	0.0	0.0	0.28	0.0	0.0	1-27	0.0	0.0	0.06
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	2.25	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.3	0.83	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.3	0.03	0.0	0.0	0.3	0.11	0.0	0.0	0.0	0.0
19	0.0	0.3	0.0	0.24	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.03	0.0	0.3	0.0	0.0
21	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.08	0.0	0.0
22	0.06	0.0	0.0	0.0	0.0	0.06	0.0	0.12	0.0	0.22	0.0	0.0
23	0.11	0.07	0.3	0.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	3.C	0.0	0.0	0.0	0.0	0.0
26	0.0	0.05	0.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.85	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.16
30	0.66		0.9	0.54	0.0	0.0	0.0	0.0	0.0	0.0	G_10	0.0
31	0-0		0.0		0.17		0.0	0.0		0.0		0.0
ICTAL	2.32	3.47	3.19	4.58	0.63	1.61	0.0	0.36	1.73	1.05	3.23	0.22
VA AFE	1.96	2.61	2.30	4.14	3.76	3.19	1.9€	2.27	3.0€	3.34	2.91	2.32

Cooperative Research Project of OSDA and Texas Agricultural Experiment Station

Air Temperature: See table for Watershed C, p. 42.002-1.
Gaging: Bain gage W-2.
Station Averages: 33 yr beginning 1939 (part-year records not included). Station not in operation July 1943 to Jan. 1, 1948.

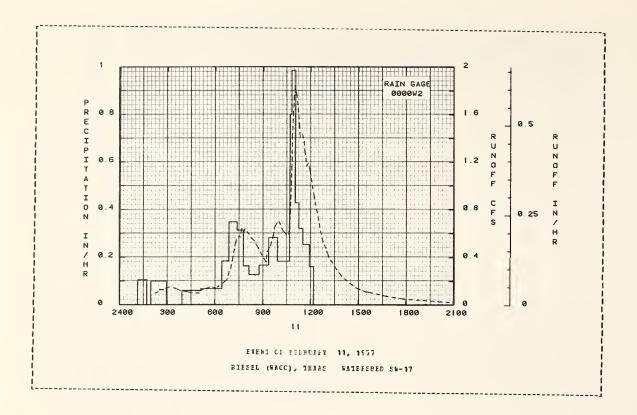
197	7	MEAN DAII	Y CISCHAFO	F (CFS)			FIFS	EL (WACC)	, TEXAS	WATERSHE	C Sh-17	
Day	Jan	₽∈b	Mar	Afr	May	Jun	Jul	Ang	Sep	Cct	КсV	D∈c
1	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0
2	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.003	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	g_n	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0 - 0	0.0	0.0	0.0
č	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.071	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.268	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.040	0.ŭ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	r 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.052	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.3	0.0	0.3	0.094	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0
1€	0.0	0.3	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
19	9.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.3	0.0	0.038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.301	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	9-C	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0
24	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 €	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0		0.ŭ	0.0	0.0	0.0	0.0	0.0	9-0	0.0	0.0	0.0
30	0.009		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.001		0.0		0.0		0.0	0-0		0.0		0.0
EAN		0.0124	0.0020	0.0062	0.0	6.0	0.0	0.0	9.0	0.0	0.0	0.0
NCHES	0.395	2.766	0.496	1.483	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VA AF	0.440	0.713	0.689	1.038	0.808	0.734	0.227	0.079	0.299	0.395	0.508	0.566

Station Averages: 33 yr beginning 1939 (part-year records not includeó). Station not in operation July 1943 to Jan. 1, 1948.
Conversion Factor: CPS to IN/DAY, multiply by 7.960419.

977 SELECTED RUNOF	F EVENI	<u>-</u> .			FIESEL	(RACO),	TEXAS &A	IFFSHEL SE	- 17
ANTECEDENT CONDITI Date Bainfall Bo-Day (irches)	CNS Funcff (inches)	Dat∈ Mo-Cay	F≱l lime of Cay	KFALL Intersity (in/br)	Acc. (inches)	lat∈ Ec-Day	FUNCE Time cf Day	Fate (cfs)	Acc. (inches)
				FFUARY 11					
FG 0C00W2 2-11 0.0 WATEFSHED CCKLITIONS:	0.083	2-11		0.0 0.1059 0.0 0.1000 0.0	0.06 0.16 0.16	2-11	225 231 244 254	0.098 0.113 0.135 0.130 0.145	0.0 0.0964 0.0105 0.0201 0.0277
100% Bermudagrass pastn 4 to 5 inches high, dor:			506 626 652 723 746	0.0600 0.0675 0.1646 0.3484 0.3130	0.23 0.32 0.40 0.56 0.70		309 329 349 415 435	0.146 0.140 0.123 0.109 0.101	0.0397 0.0555 0.0701 0.0867 0.0583
			608 846 922 956 1042	0.1636 0.1263 0.1667 0.2624 0.1626	0.76 0.84 0.94 1.10 1.24		455 500 504 514 529	0.095 0.100 0.122 0.132 0.141	0.1092 0.1119 0.1143 0.1213 0.1327
			1048 1102 1116 1131 1157	0.6000 0.5657 0.4286 0.3200 0.2538	1.32 1.55 1.65 1.73 1.64		540 550 602 608 615	0.148 0.150 0.144 0.153 0.156	0.1414 0.1497 0.1554 0.1644 0.1703
			1212	0.1600	1.88		628 639 644 647 653	0.177 0.199 0.213 0.223 0.260	0.1623 0.1937 0.1994 0.2031 0.2114
							659 706 715 720 730	0.312 0.364 0.502 0.546 0.583	0.2212 0.2347 0.2567 0.2712 0.3024

Conversion Factor: CFS to IN/BF, multiply by 0.331684.

ABTECEDENT CONDITIONS								
ABTREFERBA CONDITIONS Fate Gainfall Buncff Bo-Day (inches) (inches)	Dat∈ do-Day	Tise cf Lay	Intensity (in/br)	Acc. (inches)	Eat∈ 8c-Day	Time of Day	Fate (cfs)	Acc. (incbes)
		CF FEEEUAEN						
					2-11	735 740 747 753 817	0.571 0.638 0.604 0.640 0.555	0.3351
						827 844 504 912 918	0.358	0.4853 0.5367 0.5642 0.6005 0.6143
						524 925 939 944 954	0.502 0.576 0.652	0.6730
						1001 1014 1029 1038 1043	0.657 0.635 0.566 0.552 0.736	0.6018
						1046 1049 1051 1054 1057	1.597	0.9139 0.9311 0.9454 C.9706 0.9964
						1102 1107 1112 1117 1120	1.766 1.653 1.505	1.0480 1.0576 1.1449 1.1865 1.2127
						1129 1135 1138 1140 1145	1.366 1.254	1.2832 1.3295 1.3516 1.3657 1.3992
						1151 1157 1200 1215 1231	1.094 0.886	1.4361 1.4767 1.4953 1.5773 1.6479
						1238 1244 1310 1332 1358	0.565 0.402 0.321	1.6736 1.6932 1.7627 1.6066 1.8470
						1429 1455 1529 1555 1654	0.179 0.143 0.113 0.095 0.067	1.6830 1.5061 1.9302 1.9451 1.9716
						1755 2004 2200	0.049 0.032 0.019	1.9924 2.0204 2.0367



LOCATION: Falls County, Texas; 18 miles southeast of Waco; Frazos Biver Basin. 1at. 31 deg. 26 min. 35 sec. W.; Long. 96 deg. 93 min. 99 sec. 96

ABIA: 3.25 acres

٤C	BIBL	A EFECIE	ITATIC	N AKE E	UFCEE	(INCEES)		FI	ESEL	(WACC),	TEXAS	WATERS	HEC SW	- 1 9		
		Jan	P∈b	2 a r	. A	ř.	₹ay	Jnn	Jnl	21	19	S€Ē	Oct	B ⊂ W	D∈c	:	brrnal
1977	δ 5	2.25	3.72 3.39			.59 .914	0.57	1.56	0.10 9.0			2.04 0.0	1.43	3.46 0.0	0.0		23.99 7.021
STA AV	P C	2.02 0.713	1.89				3.66	2.68 0.530	3.43 0.31			4.58 0.375	4.89 0.892	2.53 0.56			36.84 8.259
	ANN	IZAG 160		SCHAEGE	(in/h	I) AND							SELECTI		INTER	VALS	
		Discb Oat∈	arg∈ Bat∈				Pobrs										Cays Vol.
1977		2-11	0.558	2-11	0.457	2-11	0.715	2-11	1.555	2-11	1.508	2-10	2.740	2-10	2.823	2- 4	2.817
						8	ANIEUBS	FOR F	FFICE C	F FFC	BC						
		11-17 1971	2.938	11-17 1971	1.727	11-17 1971	2.269	10 -3 1 1974	2.621	10-31 1974	3.095	10-30 1974	4.148	10-30 1974	4.157	10-30	4.412

watershed Conditions: 100% rangeland grasses with moderate infestation of honey mesquite, moderately grazed.

Maps: Topographic/Bydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States,

USIA Misc. Pob. 1380, p. 47.035-4.

Frecipitation: Lecords began September 1, 1970. Data obtained from rain gage 56-8.

Bunoff: Fecords began September 1, 1970.

Long-Term Precipitation: Bational Weather Service records at Waco, Texas.

1977	Di	ILY PREC	IFITATICE	(INCHES)			BIESEL (ALC), TE	MAS WATE	ESBEC SW-	19	
£ay	Jan	P∈b	Par	Apr	äay	aaC	Jnl	Aug	Sep	Cct	∄ C V	I∈c
1	0.0	0.0	0.0	4).0	0.0	0.01	0.0	0.0	0.0	0.0	0.51	0.0
2	0.09	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	0.54	0.01	1.23	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0
4 E	0.0	0.0	0.7	0.16	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
8	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
7	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0-0	0.05	0.0	0.0	5-0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0
9 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	1.80	0.0
10	0.0	1.26	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0
11	0.0	1.87	0.22	0.0	0.0	0.29	0.0	0.0	0.0	0.06	0.0	0.0
12	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.69	0.0	0.0	0.0	0.0	0.39	0.0	0.0	1.56	0.0	0.0	0.03
14	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.18	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	2.11	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.88	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.17	0.0	0.0
22	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.26	0.0	0.0
23	0.09	0.14	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0
25	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
2 &	0.0	0.12	1.15	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
27	0.0	0.3	1.01	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.3	0.0	0.C	0.0	0.0	0.0	0.0	0.84	0.17
30	0.74		0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0
31	0.0		0.7		0.21		0.0	0.0		0.0		0.0
CTAL	2.29	3.72	F. 61	4.59	0.57	1.56	0.10	0.42	2.04	1.43	3.46	0.20
VA AF	2.02	1.89	2.34	4.39	3.86	2.88	3.43	2.23	4.56	4.89	2.53	2.20

Air Temperatore: See table for Watershed C, p. 42.002-1. Gaging: Bain gace 56-E. Station Amerages: E yr beginning 1970 (part-year records included).

Cooperative Besearch Project of USUB and Texas Agricultural Experiment Station

197	7	EBAN DAII	Y fiscear	GE (CES)			FIESEL (WACC), TE	XAS WATE	ESBEC SW-	15	
Day	Jan	F∈b	Ear	Apr	Bay	Jut	Jul	Aug	Sep	Cct	Nev	ſęc
1	0.ŭ	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.020	0.049	0.0	0.0	C.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	E 06.0	0.934	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0-0	0-0
5	0.0	0.001	r 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.3	0.0	0 - 7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ç	3.)	0.0	0.0	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.091	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0
11	0.0	0.290	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.074	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.042	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.309	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.302	0.0	0.0	0.057	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.134	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.095	0.0	0.0	3.3	0.0	0.0	0.0	0 - C	0.0
18	0.0	0.0	0.0	3.001	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.9	0.0	0.3	0.5	0.0	0.0	3.0	0.0	0.0	0.0	0-0	0.0
20	0.0	0.0	0.0	0.061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	6.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	9.3	0.0	0.3	I 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.134	0.0	0.0	0.0	0.0	3.9	6.6	0.0	0.0	0.0
28	0.0	0.0	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.022		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.01)		0.0		0.0		0.0	0.0		0.0		0.0
EAN		0.0151	0.0052	0.0067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NCHES	0.626	3.094	1.398	1.914	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
VA AF	0.713	0.953	0.729	1.509	0.999	0.530	0.316	0.007	0.375	0.892	0.565	0.71

Station Averages: 6 yr beginrirg 1870 (part-year records included). Conversion Factor: CFS to IB/FAY, multiply by 7-323585.

ANTECEDENT CON	PITTONS		FA:	INEALL			FONCE	F	
Date Fainfal Mo-Day (irches	1 Funcff		lime	Intensity			liπ∈	Eat€	Acc. inches)
		D11 E	NG OF EED	GUARY 10 -	44 4657				
		LVI	NI OF FEE	- OI LABUR	11, 12//				
FG 00056E			EG 000						
2-10 0.0	0.0	2-10	511	0.0	0.0	2-10	1517	0.0	0.0
			547	0.1000			1519	0.0	0.0
			€ 17	0.0200	0.07		1525	0.002	0.0000
			702	0.0267	0.09		1529	0.004	0.0001
			72€	0.0250	0.10		1544	0.00€	0.0005
ATERSHED CONCILIO			226	0.0405			46.00	0.005	
Tangeland gras			736	0.0690	0.11		1629	0.067	0.0020
inches tall, with	moderate		647	0.0169	0.13		1540	0.007	0.0023
festation of hone	y mesquite.		951	0.0094	0.14		1649	0.010	0.0027
			1046	0.0545	0.19		1659	0.017	0.0034
			1146	0.0500	0.24		1710	0.029	0.0047
			1241	0.0545	0.29		1719	0.053	0.0066
			1317	0.1000	0.35		17 29	0.075	0.0100
			1347	0.0600	0.36		1740	0.112	0.0153
			1516	0.0	0.36		1750	0.149	0.0219
			1626	0.0429	0.43		1800	0.167	0.0305
			1641	0.2600	0.50		1810	0.216	0.0407
			1716	0.1371	0.56		1819	0.236	0.0511
			1746	0.1600	0.66		1839	0.242	0.0754
			1627	0.1024	0.73		1849	0.266	0.0663
			1851	0.1000	0.77		1859	0.295	0.1027
			1926	0.1543	0.8€		1914	0.305	0.1256
			1546	0.0	0.86		1944	0.327	0.1736
			20 16	0.1200	0.92		1959	0.320	0.1984
			202€	0.7200	1.04		20 14	0.302	0.2222
			2041	0.2400	1.10		2029	0.250	0.2448
			2101	0.1200	1. 14		2034	0.290	0.2521
			2131	0.1600	1.15		2039	0.331	0.2600
			2201	0.0200	1. 20		2044	0.403	0.2694
			2236	0.0171	1.21		2049	0.502	0.2809
			2400	0.0357	1.26		2054	0.576	0.2946

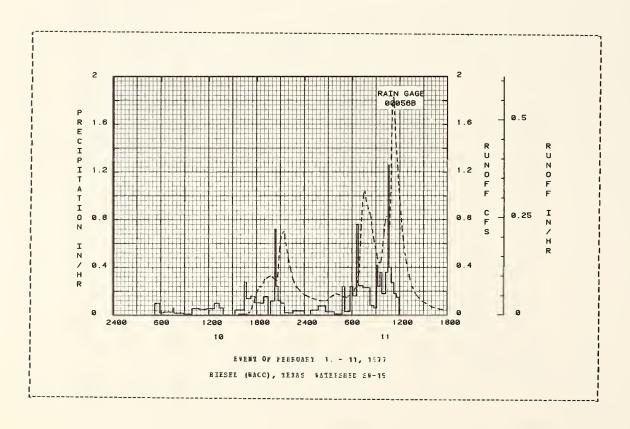
Conversion Factor: CFS to IN/BF, multiply by 0.305149.

-	ANTECE	CENT CONDIT	ICKS		E A I	NFALI			FUNCEF		
_	Date Bo-Day	DEN1 CCNDIT Bainfall (irches)	Funcff (inches)	Date Mo-Day	lime cf Day	Intersity (in/br)	lcc. (incbes)	Eat∈ Bc-Day	li∎€ of Day	Fai∈ (cfs)	Acc. (inches)
_						10 - 11,					
				2-11					2055 2104 2115 2124 2130		
					506 546 606 636 647	0.2400 0.0300 0.2400 0.1600 0.7636	1.49 1.51 1.59 1.67 1.81		2134 2144 2159 2215 2229	0.644 0.576 0.471 0.368 0.317	0.4307 0.4617 0.5016 0.5366 0.5617
					721 616 646 506 916	0.2471 0.2291 0.0600 0.0600 0.4200	1.95 2.16 2.20 2.22 2.29	2-11	2244 2300 2330 2403 35	0.274 0.243 0.200 0.173 0.150	0.5842 0.6053 0.6351 0.6675 0.6996
						0.2400 0.3600 0.1800 0.3600 1.2600					0.7143 0.7347 0.7531 0.7708 0.7796
						0.4000 0.2700 0.1600 0.1500			259 314 344 430 424	0.133 0.148 0.165 0.175	0.7890 0.7997 0.8236 0.6375 0.8584
									459 524 534 545 555	0.150 0.150 0.160 0.171 0.180	0.8868 0.9059 0.9138 0.9230 0.9355
									610 614 624 635 644	0.183 0.202 0.227 0.257 0.254	0.5457 0.5456 0.5605 0.5741 0.5867
									649 654 655 704 709	0.326 0.366 0.456 0.592 0.763	0.5946 1.0034 1.0139 1.0272 1.0444
									720 729 734 739 744	0.946 1.030 1.047 1.020 0.981	1.0922 1.1374 1.1636 1.1901 1.2156
									754 820 629 844 659	0.916 0.842 0.746 0.636 0.554	1.2638 1.3602 1.4165 1.4653 1.5146
									909 914 919 935 939		1.54 16 1.5540 1.5655 1.6013 1.6103
									545 950 954 1000 1004	0.465 0.551 0.615 0.670 0.724	1.6246 1.6376 1.6497 1.6693 1.6835
									1009 1014 1015 1024 1029	0.769 0.815 0.830 0.830 0.752	1.7025 1.7226 1.7435 1.7646 1.7853
									1054 1039 1044 1048 1052	0.755 0.752 0.727 0.821 1.004	1.8045 1.6236 1.8424 1.8561 1.8767
									1054 1056 1059 1101	1.150 1.324 1.455 1.597	1.8876 1.9002 1.9218 1.9375

Conversion Factor: CFS to 18/8E, multiply by 0.205145.

	ELECTED BONG					HSEL (WAC		* WATER	EE 24-15	
	CENT CCHET				NFALL			FUNCE	F	
Date Mo-Day	Rainfall (irches)	Runcff (inches)	Mo-Day	Time of Cay	Intensity (in/hr)	Acc. (inches)	tat∈ #c-Day	Time of Cay	Fate (cfs)	Acc. (inches)
			EVENT OF	FEERUABY	10 ~ 11,	1977 (CC)	TINUEZ)			
							2-11	1109	1.789	
								1114	1.829	2.0528
								1119	1.771	2.0956
								1124	1.613	2.1418
								1129	1.475	2.1809
								1134	1.412	2.2177
								1145	1.239	2. 25 18
								1154	1.064	2.3445
								1204	0.934	2.3953
								1219	0.732	2.4589
								1229	0.621	2.4933
								1234	0.565	2-5084
								1245	0.456	2.5473
								1259	0.398	2.5650
								1314	0.324	2.5966
								1329	0.265	2.6190
								1344	0.224	2.8377
								1359		2.6532
								1429	0-140	2.6777
								1959	0.106	2.6965
										2.0905
								1559	0.072	2.7237
								1659	0.049	2.7421
								1759	0.039	2.7556
								1854	0.027	2.7648
								2003	0.022	2.7734
								2155	0.018	2.7848
								2400		2.7946

Conversion Factor: CPS to IN/HB, multiply by 0.205149.



42.035- 4

LCCATION: Ealls (cuuty, Texas; 16 miles southeast of Waco; Frazos Biver Basir. Lat. 31 deg. 26 mir. 35 sec. 1.; Ioug. 96 deg. 52 min. 44 sec. 6.

ABEA: 3.21 acres

	BTEL	PEECIP	ITATICE	ARC EUNCE	F (INCHE	S)		EIESE	L (BACC)	TEXAS	WATERS	BEC SW-	20		
		Jau	Feb	₹ar	ytr	Bay	Jun	Jul	έτg	S€ F	Cct	PC A	Dec		Arrus)
1977	E Q	2.25 0.251	3.72 2.612	3.61 1.210	4.59 1.782	0.57 0.0	1.56 0.0	0.10	0.42 0.0	2.04	1.43	3.46 0.0	0 - 2 0 - 0		23.99 5.855
SIA AV	F Q	2.02 0.720	1.89 0.825	2.34 0.859	4.39	3.66 1.070	2.68 0.702	3.43 0.389	2.23 0.013	4.56 0.393	4.89 0.571	2.53 0.277	2.2 0.3		36.84 7.672
											SPLECIE				
		Baxi					axieue	Volume fc:	: Selecte	d Ti∎∈	 Int∈r v a	1			
		ðaxi Disch Dat∈	arg∈	1 Hour Date Vol			Baximum 6 Hc	Volume fo		d Ti∎e	 Int∈r v a	1 2 Da] s	8	fays Fol.
1977		Disch	arg∈ Bat∈	Dat∈ Vol	. Date	Fours Vol.	Baximum 6 Hc Date	Volume fo	Selecte Bours	d Time 1 Late	int∈rva Day Vcl.] ¿Da Cate] E Vol.	8 Date	Vol.
1977		Disch Dat∈	arg∈ Bat∈	Dat∈ Vol	. Date	Fours Fol. 0.658	Saximum 6 Hc Date	Volume for trs 1: Vol. Da	Selecte Bours te Vol.	d Time 1 Late	int∈rva Day Vcl.] ¿Da Cate] E Vol.	8 Date	Vol.

Watershed Couditions: 1003 rangeland grasses with dead boney mesquite, moderately grazed.

Maps: Topcgraphic/Bydrologic - Bydrologic Cata for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Fub. 1380, p. 42.736-5.

Precipitation: Eccords began September 1, 1570. Data obtained from rain gage 56-B.

Funoff: Records began September 1, 1970.

Long-Term Frecipitation: See Wational Weather Service records at Wacc, Texas.

1977	D	ILY PEEC	IFITATICE	(IBCHES)			BIESEI (BACC), TE	MAS WATE	SEEC SW-2	0	
Da y	Jan	F€b	Bar	ðŗr	€ay	Jur	Jul	Aug	S€ŗ	Cct	Bc v	Lec
1	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.51	0.0
2	0.09	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.54	0.01	1.23	6.8	J.C	0.0	0.3	0 - 0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.09	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.05	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0
\$	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	1.84	0.0
10	0.0	1.26	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.0	0 - 0
11	0.0	1.87	0.22	0.0	0.0	0.29	0.0	0.0	0.0	0.06	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3	0.69	0.0	0.0	0.0	0.0	0.39	0.0	0.0	1.56	0.0	0.6	0.63
14	0.0	0.0	0.3	0.0	0.0	0.41	0.0	0.18	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	2.11	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	û.)	0.0	0.84	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	3.07	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
19	6.0	0.0	0.0	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.10	0.0	0.0	C.0	0.0
21	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.17	0.0	0.0
22	0.05	0.0	0.9	0.0	0.0	0.0	0.0	0.04	0.0	0.26	0.0	0.0
23	0.09	0.14	3.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.12	1.15	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.17
30	0.74		0.0	0.50	0.0	0.9	0.0	0.0	0.0	0.0	0.12	0.0
31	0.0		0.0		0.21		0.0	0.0		0.0		0.0
TOTAL	2.29	3.72	3.61	4.59	0.57	1.56	0.10	0.42	2.04	1.43	3.46	0.20
STA AV	2.02	1.89	2.34	4.35	3.66	2.€8	3.43	2.23	4.56	4.69	2.53	2.20

Air Temperature: See table for Watershed C, p. 42.002-1. Gaging: Baiu gage 56-E. Station Averages: 8 yr begiuring 1970 (part-year records included).

Cooperative Research Project of OSCA and Texas Agricultural Experiment Statics

197	7	MEAN DAIL	Y IISCHAF	GE (CES)			BIESEL (WACC), TE	RAS RATE	ESBEL SW-	20	
Day	Jan	F∈b	Mer	Arr	May	Jei	Jtl	Arg	S€p	Cct	Kcv	Lec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	U.O	0.0
2	0.0	0.005	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.094	0.146	0.0	0.0	0.0	9-3	0.9	9.0	0.0	9.0	0.0
q	0.0	0.0	0 - 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.0	0.0	9.0	0.1	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.0	0.0	0.0	0.)	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0
ç	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	9.6	0.091	0.7	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0
11	9.0	0.252	0	3.9	0.0	0.8	3.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
14	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	9.9	0.087	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	9.0	0.0	0.3	0.103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	U. 0	0.0	0.0	0.0
19	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.051	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
21	0.9	0.0	0.3	0.0	0.0	0.0	3.9	0.0	0.0	0.0	9.0	0.0
22	9.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.3	0.3	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0
24	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.0	9.0	0.0	0.0	0.0
2 €	0.0	U. 0	6.015	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	9.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.012		0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
31	0.901		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0011	0.0126	0.0053	0.0060	0.0	0.0	3. 0	0.0	0.0	0.0	U.O	0.0
	0.251		1. 219	1.762			0.0	0.0	0.0	0.0	0.0	0.0
SIA AV	0.720	0.825	0.859	1.503	1.070		0.385	0.013	0.393	0.571		0.351

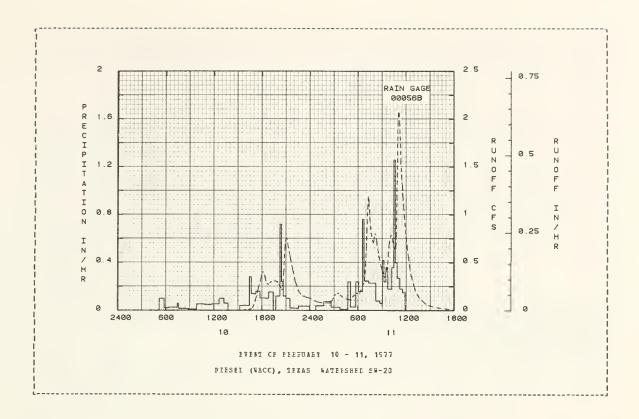
Conversion Eactor: CES to IN/FAY, multiply by 7.414645. Staticn Averages: 8 yr beginning 1970 (part-year records included).

1977	SELECTED BON	CFF EVENT			E	IESEL (WAC	C), TEXA	S WATERSE	EC 59-20	
	EDENI CONDI	TICES		E A	INFALI			FUNCE		
₽ate	Fainfall	Bunoff	Dat∈	line	Intersity	Acc.	Dat€	Tim€	Fate	
Bc-Day	(irches)	(inches)	Bo-Pay	of Cay	(in/hr)	(inches)	Mc-Lay	of Cay	(cfs)	(inches)
			PVE	M CE EEE:	EO 2 EY 10 -	11, 1977				
	EG 0C056B			EC 000	- 6 B					
2-16	0.0	0.0	2-19	511	0.0	0.0	2-16	1501	0.0	0.C
				547	0.1000	0.0€		1505	0.001	0.0000
				617	0.0200	0.07		1509	0.002	0.0000
				702	0.0267	0.09		1525	0.003	0.0002
				726	0.0250	0.10		1540	0.005	0.0006
BATTESEE	D CCNEITICNS			.20	0.0250				0.005	
	eland grasse			736	0.0600	0.11		1555	0.008	0.0011
	tall, with d			847	0.0169	0.13		1625	0.014	0.0028
hchey mes				951	0.0094	0.14		1640	0.016	0.0020
nenel men	guices			1046	0.0545	0.19		1650	0.029	0.0052
				1146	0.0500	U. 24		1700	0.056	0.0074
				1146	0.0500	0.24		1700	0.056	0.0074
				1241	0.0545	0.29		1710	0.098	C.0114
				13 17	0.1000	0.35		1720	0.148	0.0177
				1347	0.0600	0.38		1730	0.205	0.0269
				1516	0.0	0.38		1740	0.266	0.0391
				1626	0.0429			1750	0.317	0.0541
				1020	0.0425	0.43		1750	0.317	0.0341
				1641	0.2600	0.50		1800	0.377	0.0720
				1716	0.1371	0.58		1805	0.460	0.0820
				1746	9.1600	0.68		1810	0.403	0.0923
				18 27	0.1024	0.73		1620	0.366	0.1121
				1851	0.1000	6.77		1830	0.315	0.1297
				4000	0.4503	G. E 6		4000	0.278	0.1449
				1928	0.1543			1840 1850		0.1449
				1946	0-0	0.66			0.274	
				201€	0.1200	0.92		1900	0.267	0.1736
				2026	0.7200	1.04		1910	0.304	0.1888
				2041	0.2400	1.19		1941	0.307	0.2376
				2101	0.1200	1.14		2000	0.28€	0.2666
				2131	0.1000	1.19		2009	0.274	0.2796
				2201	0.0200	1.20		2024	0.236	0.2993
				2236	0.0171	1.21		2030	0.220	0.3063
				2400	0.0357	1.26		2035	0.223	0.3120

Conversion Factor: CPS to IM/BE, multiply by 0.308952.

SELECTED FUNO					IESEL (SAC				
ABTECHTEBT CONDIT Cate Bainfall o-Day (Trobes)	ICNS Funcff (inches)	Date Eo-Day	Time of Day	RFALL Intersity (in/br)	Acc. (inches)	Date Ec-Day	FUNCE: Time of Day	Eate (cfs)	Acc. (inches)
				10 - 11,			20.88	3.287	0.5156
		2-11	146	0.0 0.0407 0.0784 0.0277 0.0100	1.30	2-10	2045	0.356	0.3274
			24 1 346	0.0784	1.37		2019	0.549	0 3530
							2057	0.727	0.3639
			506	0.2400 0.0300 0.2400 0.1600 0.7658	1.49		2100 2104	0.744	
			606	0.2400	1.55		2110	0.735	6.4138
			636 647	0.1600 0.7638	1.67		2110 2115 2130	0.654	0.4460
			254					0.512	0.5093
			816 846	0.2291	2.16		2150	0.438	0.5338
			906	0.2471 0.2291 0.0860 0.0600 0.4230	2.22		2210	0.307	0.5725
							2 2 2 5	0.250	
			931 946	0.2400	2.35		2240 2254	0.155	
			1016 1031	0.2600 0.1600 0.3600 1.2600	2.53		2309 2352	0.148	0.5365
			1041	1.2800	2.83		2400	0.128	
			10 5 6		2.93		10	0.115	
			1116 1136	0.2700 0.1800 0.1500	3.02 3.08		133	0.051	
			1156	0.1500	3.13		209 234		C.7349
							295	0.191	
							257	0.132	0.7575
							306 316		0.7727
							327	0.160	
							33 7 349	0.175	0.7917
							406	0.138	
							510	0.105	
							525	0.147	
							535 545		0.8734
							600 614	0.179	0.8559
							625		0-9204
							€35	0.253	0.5327
							645 850	0.310	0.5487
							655	0.387	0.9834
							700 705		0.5750
							708	0.827	1.6027
							710 715		1.0118 1.6384
							718	1. 174	1.0560
							720 722	1.185	1.0682
							725 730		1.0977
							740 750	0.812	1.1698 1.2098
							755 800	0.713	1.2282
							804	0.765	1.2620
							810	0.801	1.2863
							815 825	0.786	1.3067
							84 0 355	0.558	1.3919
							909	0-352	1.4817
							919 925	0.354	1.4805
							930	0.367	1.5013
							940	0.454	1.5225
							945 949	0.453	1.5351
							955 959	0.675	1.5656
							10 10	0.786	1.6230

SELECTED BUNOF	ONS		FAI	NFALL			RUNCE	F	
Late Rainfall	Funcff	Date	Time	Intersity	Acc.	□ate	Time	Fate	Acc.
Mc-Day (irches)	(inches)	Mo-Day	of Cay	(in/br)	(inches)	Ec-Lay	cf Day	(cfs)	(inches)
		EVENT CE	FFEFUAFY	10 - 11,	1977 (CC)	TINGEE)			
						2-11	1015	0 766	1 6035
						2-11	1035	0.786 0.708 0.667 0.641	1 6817
							1029	0.667	1 6555
							1030	0.641	1 7265
							1045	0.547	1.7454
							1049	0.713	1.7635
							10 5 1		1.7713
							1054	1.167	1.7867
							1056	1.435	1.6001
							1059		1.8245
							1101	1.951	1.8440
							1104	2.049	1.8749
							1107	2.072	1.5068
							1110	2.05€	1.9387
							1114	1.928	1.9797
							1119	1.776	2.0274
							1124	1.531	2.0700
							1129	1.365	2.1073
							1135	1.298	2.1485
							1140	1.188	2.1805
							1144		2.2038
							1149	0.988	2.2304
							1234		2.2975
							12 14		2.3336
							1224	0.517	2.3634
							1234		2.3676
							1249		2.4163
							1259		2.4314
							1314		2.4498
							1529	0.162	2.4841
							1344		2.4753
							1359		2.4843
							1429		2.4581
							1459		2.5080
							1559	0.030	2.5211
							1700		2.52EE
							1600		2.5333
							1859		2.5363
							2000		2.5383
							2356	0.0	2.5414



42.036- 5

BIESEL (WACC), TEXAS WATERSHED Y-13

LCCATION: Falls (cunty, Texas; 18 miles southeast of Waco; Frazos Fiver Pasin. Iat. 31 deg. 26 min. 36 sec. B.; Iong. 96 deg. 52 min. 35 sec. F.

11.30 acres

ВC	NTBL	Y PRECIP	ITATICN	AND FUNC	FE (INCEE	S)		BIESI	EI (WACC)	, TEXAS	WATERS	BEC Y-1	13		
		Jap	F∈b	Bar	y.r.	nay.	Jun	Jul	Æτg	Sep	Cct	₿C V	£€c		≱rroal
1977	E Q	2.44	3.87 1.991	3.45 0.160	4.75 1.652	0.53 0.0	2.23	0.0	0.49 0.0	1.91 0.0	1.30	3.15 0.0	0.2		24.35 3.811
VA AIS	P Q	1.71 0.096	2.29 0.506	2.69 0.617	4.19 0.508	3.39 0.545	2.40 0.479	2.79 0.063	2.13 0.013	3.91 0.281	4.79 0.432	2.40 0.146	2.4		35.10 4.152
				TRAFCE IA	- (b-) BEF	MARTHRA	TOT DET	C OF PUR			CELECUE		TEGETT		
	4 1 1 1 1 1	Mari Disch	 mum arg∈		2	Bctrs	laximum 6 Bc	Volume fours	r Select 12 Fours	ed Time 1	 Int∈rva Day	1 2 Da	y s	8	 Cays
1977	ANN	Basi	mum arg∈ hat∈	1 Hour	2 1. Date	Hctrs Vol.	laximum 6 Hc Date	Volume fours	r Select	€d Time 1 Date	Interva Day Vol.	1 2 Da Date	ys Vcl.	8 Date	Vol.
1977	ANN	Masi Disch Date	mum arg∈ hat∈	1 Hour	2 1. Date	Bctrs Vol. 0.606	laximum 6 Bc Date 2-11	Volume fours	r Select 12 Fours ate Vol.	€d Time 1 Date	Interva Day Vol.	1 2 Da Date	ys Vcl.	8 Date	Vol.

watershed Conditions: 96% sorghum; 4% grassed waterway. Croplend planted on graded furrows.
Baps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1969,
USEM Bisc. Fub. 1370, p. 42.037-5.
Precipitation: Fecords began Jan. 1, 1969. Data from rain gage 70-%.
Sunoff: Records began Jan. 1, 1969.
Loug-Term Frecipitation: Wational Weather Service records at Waco, Texas.

1977	D.	AILY PREC	IFITATICN	(INCHES)			BIESEI (WACC), TE	XAS WATE	ESBEC Y-13		
Lay	Jan	P∈b	Bar	Arr	Вау	Jur	Jul	Aug	Ser	Cct	Hov	Dec
1	0.0	0.0	0.3	0.0	0.0	0.04	0.0	C-0	0.0	0.0	0.43	0.6
2	0.21	0.26	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
3	0.26	0.06	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 5	0.0	9.0	0.0	0.1€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.15	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0 - 0	0.0	G.C	0-0	0.0
€	0-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0
5	0.0	0-0	0.0	0.0	0.0	0.0	0.0	C.0	0.27	0.0	1.81	0.0
10	0.0	1.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0	0.0
11	0.0	2.03	0.20	0.0	0.0	0.17	0.0	0.0	0.0	0.05	0.0	0.0
12	J.0	0.0	0.0	0.0	0.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3	0.96	0.0	0.0	0.0	0.0	0.31	0.0	0.0	1.47	0.0	0.0	0.08
14	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.11	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	2.32	0.0	1.38	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.ŭ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	G.C	0.0
18	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0,15	0.0	0.0	0.0	0.0
19	0.0	0-0	3.0	0.0	0.02	C - O	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.98	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.15	0.0	0.0
22	0.05	0.0	0.0	0.0	0.0	0 - 10	0.0	0.13	0.0	0.31	0.C	0.0
23	0.06	0.10	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	G.11	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.06	1.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	C. 0		0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.15
30	0.73		0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0
31	0.0		0.0		0.16		0.0	0.0		0.0		0.0
TCTAI	2.49	3.87	3.45	4.75	0.53	2.23	0.0	0.49	1.91	1.30	3.15	0.23
STA AV	1.71	2.29	2.69	4.19	2.39	2.40	2.79	2.13	3.91	4.79	2.40	2-41

Air Temperature: See table for Watersled C, p. 42.092-1. Gaging: Bain gage 70-A. Station Averages: S yr beginning 1969.

Cooperative Research Project of USDA and Texas Agricultural Experiment Station

197	7	REYN DYLI	Y LISCHAR	GE (CFS)			FIEEFI (WACC), IE	IAS WATE	FSPEC Y-1	: 	
Cay	Jan	Peb	Far	ytr	Bay	Jun	Jul	Řυg	Set	Cct	₩ov	[€c
1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
3	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C - O
4	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	C-0
5	0.0	C - O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
É	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0_0	0.0	0.0	0.0	u . 0
8	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.046	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.799	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3	0.004	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0 - 0
14	0.0	0.001	0.3	0.0	0 . C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.187	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 €	0.0	0.0	0.0	0.347	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	L.0
18	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.237	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	u = 0
2 =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0
2€	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.031	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
EAB	0.0001	0.0338	0.0325	0.0261	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RCBES	0.00€	1.991 0.506	0.160 0.617	1.652 0.908	0.0	0.0	0.0	0.0 0.013	0.0 0.281	0.0	0.0	0.0

Conversion Factor: CPS to IB, EAN, multiply by 2.106341. Station Averages: 9 yr beginning 1969.

77	SELECTED BON	OFF EVERT			I	IESEL WAG	(C) , TETA	S WATERS	EE 1-13	
	ECBAT CCBDI	TICES		5.3	TREATT			FORCE	\$	
[ate	Fainfall (irches)	Buncff	Date	Time	Intensity	Acc.	Date	Time	Bate	Acc.
во-рау		[IBCEES]	во-рау	or tay	11N/DI)	1100068)	вс-рау	or ray	(CIS)	[INCEEE]
			EVE	OF FEB	8UBB1 10 -	11, 1977				
	FG 00070A			EG 303	70A					
2-10	0.0	6.0	2-10	529	0.0		2-10	1658		0.0
				534	0.4800			1709	0.003	0.0000
				559	0.0480			1739	0.004	0.0002
				645	0.0261			1754	0.010	0.0003
				7 3 4	0.0367	0.11		1754 1824	0.013	0.000€
WATERSER	C CCUTITIONS	:								
6% scrgb	DB: 49 Permu	da-		750	0.0375	0.12		1836	0.008	0.0010
rass wat	erway, good	ccver.		900	0.0171	0.14		1841	0.00€	0.0010
				1020	0.0225	0.17		1841 1845	0.005	0.0011
					0.0444	0.21		1855	300.0	0.0012
				1159	0.0400	0.24		1905	0.025	0.0014
				1214	0.0800	0.26		1925	0.020	0.0021
				1259	0.0533	0.30		1944	0.020	0.0026
				1329	0.1400	6.37		2007	0.035	0.0034
				1400	0.0	0.37		2031	0.018	0.6041
				1614	0.0134			2039	0.025	0.0044
				1014	0.0134					0.0011
				1644	0.1400			2047 2054	0.095	0.0051
				1729	0.1333			2054	0.257	0.0069
				1759	0.1600	0.66		2104	0.316 0.306	0.0111
				1629	0.0200	0.67		2125	0.30€	0.0206
				1839	0.1200	0.69		2134	0.363	0.0252
				19 14	0.1543	0.78		2144	0.427	0.0311
				1544	0.1400	0.65		2153	0.449	0.0165
				1959	0.0400			2202	0.427	0.0426
				2024	0.0720			2228	0.255	0.0564
				20 34	0.5400	0.96		2228 2243	0.264	0.0626
				2040	0.9000	1.07		2258	0.270	0.0685
				2045	0.4600			2304		0.0711
				2109	0.1250			2315	0.371	0.0763
				2129	0.2100	1.23		2325	0.30€	0.0703
				2159	0.0600	1.26		2346	0.27€	0.0899
				2133	0.000	1020		2340	0.270	V.0033

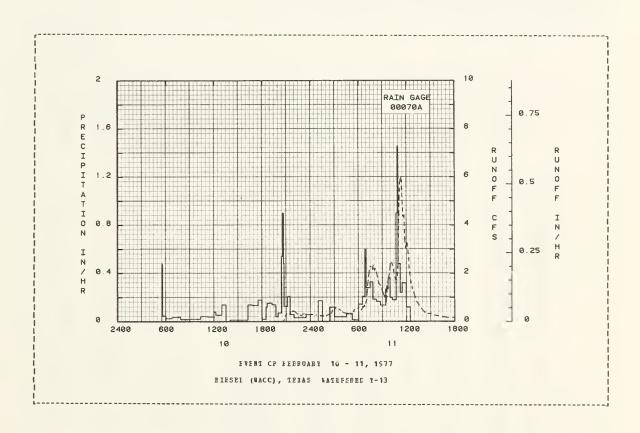
Conversion Factor: CFS to IB/EE, Bultiply by .087764.

ANTECED	ENI CCNDIT	ICAS		RAI	NEALL			FUNOF	E	
Dat∈ Eo-Day	Rainfall (inches)	Runcff (inches)	Date Mo-Day	Time of Cay	Intensity (in/hr)	Acc. (inches)	Eat∈ Ec-Day	Time of Cay	Bat∈ (cfs)	Acc. (inches)
						1577 (CC)				
			2-19	2254	0.0327	1.25	2-19	2400	0.303	0.0959
				2325 2400	0.0543	1.31 1.34	2-11	20 41	0.28€ 0.27€	0.1045 0.1151
			2-11	55 130	0.0 0.1742	1.25 1.31 1.34 1.34		47 117	0.270	0.1155 0.1269
				200	0.0	1.45		139	0.239	0.1347
				224 259	0.0	1.43		201 219	0.264	0.1428
				430 514	0.0396 0.0682	1.45 1.45 1.50 1.56 1.61		237 246	0.259 0.264 0.256 0.358 0.475	0.1585 0.1639
				6 4 9	0.1448 0.2100	1.69 1.76		3 11 333	0.589	0.1831
				€59 729	0.2800	1.62 1.69 1.76 1.86 2.00		349 4 0 5	0.521 0.589 0.525 0.462 0.379	0.2126 0.2224
						2.11 2.15 2.27 2.36 2.45				
				844	0.1655	2.27		514	0.257	0.2548
									0.306 0.259 0.257 0.415 0.507	
				959 1014	0.3600	2. £ 9 2. £ 9 2. £ 8 2. £ 0 2. 57		554 559	0.535 0.540 0.479 0.620 0.615	0.2826 0.2866
				1044 1052	0.1800	2.68		621	0.479	0.3030
				1114	0.4800 0.2460 0.3200 0.3200 0.1200	3.09		646 655	0.679 0.759 0.921 1.339	0.3242
				1144	0.3200	3.23		703	0.921	0.3435
				1229	0. 1200	3.37		714		
								719 729	1.976	0.3754 0.4106 0.4340 0.4664 0.4695
								736	2.263	0.4340
								719 729 736 746 753	2.364	0.4695
								801	2.115	0.5158
								809 823 835 846	1.853	0.5410 0.5826 0.6125 0.6371
								846	1.502	0.6371
								902	1.218	0.6689
								919 929	0.831	0.6565 0.7059 6.7155 0.7230
								933 937		0.7230
								944 954 1000 1009	1.715	0.7393 0.7683
								1000	2.423	0.7856 0.8177 0.8527
								10 19	2.318	0. €527
								1029 1041	1.987	0.8841
								1050 1057	1.754	
									3.340	
								1105 1107	4.456 5.098	0.9993 1.0123
								1111 1115	5.729 5.921	1.0450
								1120	5.9€€	1.1226
								1124 1129	5.772 5.019	1.1570 1.1965
								1135 1140	4.367 4.349	1.2376 1.2695
								1143	4.420	1.2888
								1149 1155	3.427 3.046	1.3232 1.3516
								1159 1206	3.101 3.269	1.3696
								1215	2.807	1.4422
								1224 1236	2.040 1.552	1.4741
								1241	1.458	1.5171

Conversion Factor: CFS to IB/B5, multiply by .087764.

377	SELECTED BONG	OFE EVENT				HSEL (WAC	C), 111A:	WATERSH	EC 1-13	
AKTE	CICERI CONDI	TICKS		621	NEALL			FUNCE	F	
£ate Bo-Da		Funcff (inches)	Date Mo-Day		Intensity (in/hr)		Eate Ec-Day	lim∈ of Lay	bate (cfs)	Acc. (inches)
			EVENT OF	FEEEGARY	10 - 11,	1977 (CC)	TINUEC)			
							2-11	1317 1336	0.825 0.673	1.5767
								1358	0.502	1.6164
								1419	0.366	1.6256
								1440	0.331	1.6405
								1505	0.327	1.6526
								1529	0.273	1.6631
								1600	0.239	1.6747
								1629	u.166	1.6637
								1715	0.169	1.6957
								1745	0.166	1.7030
								1759	0.171	1.7065
								2102	0.137	1.7477
								2259	v.116	1.7693
								2400	0.109	1.7794

Conversion Factor: CFS to IN/BF, Bultiply by .087764.



42.037- 4

BIESEL (WACC), TEXAS WATERSEED Y-14

LOCATION: Falls (conty, Texas; 18 miles southeast of Waco; Frazos Fiver Basin. Lat. 31 deg. 26 min. 11 sec. K.; lcng. 56 deg. 52 min. 55 sec. K.

ABEA: 5.60 acres

80	HIN	PEECIE	ITATICN	ANE EDNC	FP (INCEE	s)		RIE	SEL (WACC), TEXA	S WATE	5SHED Y	7-14		-
		Jan	F∈b	Bar	AFE	Bay	Jun	Jnl	≥υg	Ş€Ţ	Cct	Nev	Dec		rcuel.
1977	Ę Q	2.67 0.041	4.20 2.091	3.86 0.331	5.59 2.151	0.58	1.88	0.0	0.48	2.15 9.0	1.30	3.60 0.0	0.24		26.55 4.614
STA AV	P Q	1.89 0.135	2.48 0.463	2.76 0.558	3.71 0.645	2.83 0.702	2.54 0.522	2.42 0.381	2.69 8.123	3.73 0.436	4. E0 1. 179	2.52 0.382			84.64 6.003
	ANNI	ixs8	 Bup		n/hr) AND		Maxioum	Volume f	cr Select	ed Time	Interva	 1			
		Disch Dat∈		1 Hour Date Vo		Bonts Vol.	6 Ec Dat∈		12 Fcurs at∈ Vol.		Day Vol.	2 Da Dat∈	vol.		Vol.
1977		2-11	0.916	2-11 0.	505 2-11	0.760	2-11	1.608 2	-11 1.82	3 2-10	1.955	2-10	2.030	4-13	2.151
						BARIEUR	S FCF FF	TICE CE	FFCCEL						

Watershed Conditions: 100% pasture. Cropland planted on graded forrows.
Maps: Topographic/Bydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969,
USIA Misc. Fub. 1370, p. 42.038-5.
Precipitation: Fecords began Jan. 1, 1969. Thiessen weighted method using rain yages 75-A and 89.
Funcff: Records began Jan. 1, 1969. Station not in operation during 1976.
Long-Term Frecipitation: National Weather Service records at Waco, Texas.

1977	D.	AILY PEEC	IFITATICN	(INCHES)			BIESEI	(SACC), 'I	EXAS WA	TERSHED T	-14	
Eay	Jan	F∈b	Mar	Apr	Ħay	Jnn	Ju1	Aug	Sep	0ct	Nov	D€C
1 2 3 4 5	0.0 0.13 0.30 0.0 0.0	0.0 0.31 0.04 0.9 0.0	0.0 0.0 1.41 0.27 0.0	0.0 0.0 0.0 0.21	0.0 0.0 0.0 0.0	0.05 0.0 0.0 0.0	0.6 0.0 0.0 0.6 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.50 0.0 0.0 0.0	0.0 0.0 0.0 0.0
6 7 8 9	0.12 0.0 0.03 0.0	0.0 0.0 0.0 0.0	0.0 0.3 0.0 0.9	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.27 0.35 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 2.04 0.0	0.0 0.0 0.0 0.0
11 12 13 14 15	0.0 0.9 0.99 0.0	2.28 0.0 0.0 0.0 0.0	0.25 0.0 0.0 0.0	0.0 0.0 0.0 0.0 2.61	0.0 0.0 0.0 0.0	0.09 0.0 0.56 0.08 1.06	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.10	0.0 0.0 1.53 0.0	0.03 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.09 0.0
16 17 18 19 20	0.0 3.0 0.0 0.0	0.0 0.0 0.3 0.0	0.0 0.0 0.0 0.0	0.90 0.03 0.03 1.10	0.0 0.0 0.0 0.03	0.0 0.0 0.0 0.E	0.0 0.0 0.0 0.0	0.0 0.0 0.12 0.0 0.09	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.0 0.28 0.01 0.0	0.0 0.0 0.09 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.32 0.0 0.0 0.0	0.0 0.12 0.12 0.6 0.0	0.0 0.0 0.0	0.0 0.17 0.0 0.0	0.0 0.0 0.0 0.0	0.11 0.28 0.0 0.0	0.0 0.0 0.0 0.16	0.0 0.0 0.0 0.0
26 27 28 29 30	0.0 0.0 0.0 0.0 0.81	0.10 0.) 0.0	1.16 0.97 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.74	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.86 0.10	0.0 0.0 0.0 0.15 0.0
TCTAI STA AV	2.67 1.89	4.20 2.48	3.86 2.76	5.59 2.71	0.58 2.83	1.88 2.54	0.0 2.42	0.48 2.69	2.15 3.73	1.30 4.60	3.60 2.52	0.24 2.27

Air Temperature: See table for Watersbed C, p. 42.002-1. Gaging: Thiessen weighted average of rain gages 75-A and 89. Station Averages: 8 yr beginning 1969. Station not in operation during 1976.

Cooperative Research Project of USDA and Texas Agricultural Experiment Station

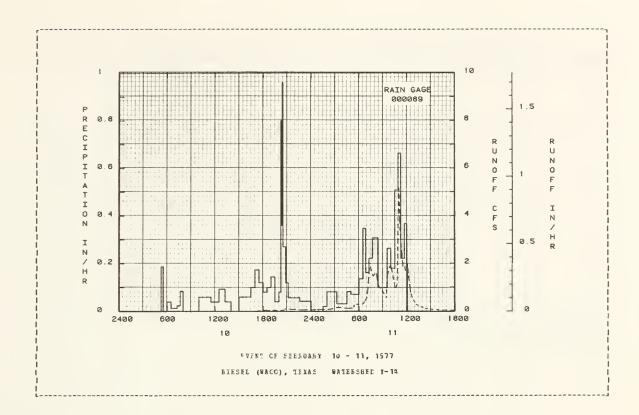
151	17	BEAR DAII	Y CISCHAR	GE (CFS)			BIFSFI	(FACC), II	EXAS 91	TERSPEC 1	- 14	
Day	Jan	F∈b	tar	ştı	5 a y	Jut	Jnl	Ang	Sel	Cct	BOA	Ç€C
1	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.002	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0 1	0-001	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0-0
-	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.0	0.0	C.C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.C	0.0	C.O	0.0	0.0	0.0	0.0
6	0.0	0-0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	6.0	0.0	0.0	0.0	0.0
10	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0
11	0.0	0.452	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0
12	0.0	0.013	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0 - 0	0.0	0.0
13	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.002	0 - 0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0-0	0.210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.220	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C.0
17	0.0	0.0	0.0	0.001	0.0	0-0	0.0	0.0	0 - 0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.6	0.0	0.0	0.0	C-0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.075	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C _O
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
23	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C - O	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C - O
28	0.0	0.0	0.010	0 - C	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 31	0.003		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J1	0.002		C.C		0.0		0.0	0.0		0.9		
BAN	0.0003	0.0176	0.0025	0.0169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NCHES	0.041		0.331	2.151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
A AV	0.135	0.463	0.558	0.645	0.702	0.522	0.361	0.123	0.436	1.179	0.382	0.47

Conversion Factor: CPS to IB/FAI, moltifly by 4.250295. Station Averages: 8 yr beginning 1969. Station act in operation doring 1976.

SELECTED BON					BIESEL WA				
ARTECECRET CORDI	TICES		FAI	NEALL			BONCE	F	
Tate Bainfall Bo-Day (irches)	Runcff Linches)	Dat∈ Mo=Dav	Time of tax	Intersity	Acc.	Dat∈ Ac-Dav	Time cf Day	Fate (cfs)	Acc.
		EVE	BI CF FFB	UABY 10 -	11, 1977				
EG 000089			FG 0000	189					
2-10 0.0	0.0	2-10		0.0	0.0	2-10		0.0	0.0
			530	0.1675	0.05		1705	0.004	0.0001
			600	0.0	0.05		1720	0.021	0.0006
			630	0.6400	0.07		1739	0.034	0.0022
			715	0.0133	0.08		1759	0.046	0.0045
TIFSHED CCRLITICAS	:								
# rastore: cood cl	CVEI.		739	0.0250	0.05		1629	0.036	0.0061
			800	0.0657	0.12		1840	0.036	0.0093
			900	0.0	0.12		1849	0.043	0-010*
			959	0.0	0.12		1914	0.045	0.0136
			1125	0.0600	0.21		1944	0.042	C.0175
			1230	0.0393	0.25		20 29	0.036	0.0226
			1315	0.0933	0.32		2039	0.056	0.0240
			1400	0.0400	0.35		20 45	0.100	0.0254
			1459	0.0	0.35		20 50	0.111	0.0269
			1629	0.0600	0.44		2116	0.093	0.0346
			1655	0.1000	0.45		2204	0.076	0.0467
			1730	0.1742	0.58		2244	0.056	0.0545
			1800	0.1200	0 - 64		2334	0.055	0.0630
			1830	0.0800	0.66		2400	0.062	0.0677
			1900	0.1000	0.73	2-11	39	0.066	0.0750
			1929	0.1448	0.80		49	0.069	0.0770
			1959	0.0403	0.62		139	0.070	0.0873
			2014	0.0800	0.84		214	0.062	0.0951
			2020	0.8000	0.92		244	0.109	0.1036
			2025	0.3600	0.95		369	0.159	0.1135
			20 30	0.9600	1.03		344	0.152	0.1295
			20 50	0.2700	1.12		435	0.122	0.1502
			2110	0.1200	1.16		509	0.134	0.1630
			2235	0.0565	1.24		520	0.175	0-1680
			2400	0.0424	1.30		524	0.265	0.170€

Conversion Factor: CPS to IN/RF, multiply by 0.177096.

		EE EVENT						AS WATERS		
AFTECECE Cate Mo-Day	Bainfall (irches)	Runcff (inches)	Dat∈ Bo-£ay	Fåî Ti¤∈ of Cay	RFALI Intersity (in/hr)	Acc. (inches)	Date Mc-Day	BUNCFI Time of Day	Fate (cfs)	Acc. (inches)
			2-11		10 - 11,			F. 4. 4	0.264	0.4646
			2-11	230	0.0200	1.30 1.31	2-11	559	0.257	0.2003
				314 430	0.0811	1.41		624	0.257	0.2223
				459	0.0 0.0200 0.0611 0.0316 0.0628	1.45		541 559 624 €39 647	0.435	0.2466
				630 649	0.1355	1.63		704	0.81€	0.2751
				715	0.0700 0.1355 0.3474 0.1615 0.2222	1.61		713	0.565 0.816 1.019 1.416 1.762	0.2647 0.2751 0.2659 0.3039
				742	0.2222	1.51				(.32/5
				821 934	0.3077 0.0986	2.11		725	1.853	0.3650
				959	0.2640	2.34		746	1.465	0.4667
				1029 1055	0.3077 0.0986 0.2640 0.1600 0.5077	2.65		755 80 9	1.853 1.693 1.469 1.560 1.579	0.3650 0.4174 0.4667 0.5268 0.5731
										0.6115
				1141 1159	0.6632 0.2222 0.3667 0.2000	2.9€		€25	1.297 1.026 0.956 0.856	0.6490 0.6925
				1205	0.2000	3.09		854	0.85€	0.7157
								909	0.721	0.754€
								925 528	0.575 0.600 1.231	0.7652
								930 934	1.231	0.755E 0.8119
								942	1.000	0.8119
								950	1.643	0.6910
								955 1000	1 847	0.9167
								1010	1.635	0.5978
								1020		1.0415
								1030 1039		1.0762 1.1027
								10 46	1. 145	1.1246
								1049 1053	3.050	1.1369 1.1646
								1056	4. 144	1.1964
								1058 1100	4.144 4.935 5.172	1.2232
								1104	4.706	1.3114
								1108		1. 36 17
								1114 1123	2.980 2.258 1.864 2.012	1.4219
								1130	1.864	1.5343
								1140	2.012	1.5927
								1145	1.703	1.6421
								1159 1205	1.703 1.947 1.916 1.416	1.6959
								1215	1.416	1.7793
								1221	1.055	1. 80 12
								1227 1232	0.824	1.6178 1.8292
								1239 1249	0.575 0.457	1. 64 25 1. 65 76
								1249	0.457	1.65 /6
								1309	0.264	1. 6800
								1323 1345	0.240 0.165	1.8908 1.5046
								1400	0.149	1.9120
								1417	0.111	1.9165
								1435 1455	0.096 0.062	1.9240 1.9293
								1515	0.074 0.065	1.9339
								1540 1600	0.056	1.9390
								1630	0.052	1.5475
								1659 1729	0.046 0.041	1.9517 1.9555
								1600	0.039	1.9592
								260 2	0.032	1.9720
								2400	0.018	1.9895



LOCATION: Falls County, Texas; 18 miles southeast of Naco; Frazos River Basin. 1at. 31 deg. 27 min. 56 sec. N.; 96 deg. 53 min. 07 sec. N.

9.9**0** acr∈s AREA:

E C	RIBL	A EPECIE.	ITATICN	AND FUNCE	E (INCEE:	S)		RIES	FI (WACC), TEXA:	S WATER	SHEC W-	-12		
		Jan	F∈b	Ear	Afr	Ľa y	Jun	Jul	Aug	ser	0ct	N C V	Dec		ernual
1 977	P Q	2.33 0.038	3.45 1.438	3.24 0.090	4.67 1.439	0.64 0.0	1.65 0.0	0.0 0.0	0.48 0.0	3.06 0.0	1.15 0.0	3.12 0.0	0.2		24.22 3.004
VA AFS	P Q	1.76	2.16 0.331	2.50 0.317	4.11 6.952	3.76 0.464	2.66 0.466	3.18 0.353	2.40 0.166	4.52 9.604	4.82 1.009	2.37 0.52			36.55 5.693
	ANN	Maxi	 nun	H&EGF (in			axioun	Veluse fo	cr Select	ed Time	Interva	1			Cavs
	ANN		 mum arg∈	1 Hcur Late Vol	2		aximum 6 Bc	Volume fo		ed Time		1	 a y s	8	Cays Vol.
1977	ANN	Maxi Disch	mum arge Fate	1 Hcur	2 Date	Bcurs Vol.	laxioum 6 Rc Date	Volume for	r Select 12 Fours ate Vol.	ed Time 1 Cate	Interva Day Vol.	1 2 Da Date	ays Vcl.	8 Date	vol.
1977	ANN	Baxio Dische Date	mum arge Fate	1 Hcur Late Vol	2 . Date	Bcurs Vol. 0.597	Saximum 6 Bc Date	Volume for	cr Select 12 Fours ate Vcl.	ed Time 1 Cate	Interva Day Vol.	1 2 Da Date	ays Vcl.	8 Date	vol.

Natershed Conditions: 97% sorghum; 3% grassed waterway. Cropland planted on graded furrows.

Major Topographic/Bydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969,
USLA Misc. Eub. 1370, p. 42.039-3.

Frecipitation: Lata from rain gage WIE.

Runoff: Records hegan October 1, 1969. Part-year records are included in station averages.

Long-Term Precipitation: Wational Weather Service records at Waco, Texas.

1977) Di	AILY PERC	IFITATION	(INCHES)			RIESEL	(%ACC), I	EXAS WAT	EBSHET W-	12	
Lay	Jan	F∈b	Bar	Apr	Bay	Jun	Jul	Aug	Sep	Oct	Nov	D∈c
1 2 3 4	0.09 0.39 0.6 0.0	0.0 0.23 0.05 0.3 0.0	0.0 0.0 1.19 6.3 0.0	0.0 0.0 0.0 0.17 0.0	0-0 0-0 0-0 0-0 3-0	0.04 0.0 0.0 9.0 0.0	0.0 9.0 0.0 0.0	0.0 0.0 0.0 6.0	0.9 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.44 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
6 7 8 9	0.08 0.0 0.0 0.0	0.0 0.0 0.0 0.0 1.15	0.0 0.6 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.12 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.35 0.33 2.38	0.0 0.0 0.0 0.0 0.79	0.0 0.0 0.0 1.86 0.0	0.0 0.0 0.0 0.0
11 12 13 14 15	0.0 0.0 0.95 0.0	1.88 0.0 0.0 0.0 0.0	0.22 0.0 0.0 0.0	0.0 0.0 0.0 0.0 2.24	0.0 0.0 0.0 0.0	0.24 0.0 0.26 0.05 0.99	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.08	0 - 0 0 - 0 0 - 0 0 - 0	0.05 0.0 0.0 0.0	0-0 0-0 0-0 6-6 0-0	0.0 0.0 0.0P 0.0
16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.91 0.0 0.03 0.0 0.93	0-0 0-0 0-0 0-04 0-0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0	0.0 0.0 0.15 0.0 0.06	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0	0-0 0-0 0-0 0-0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.0 0.10 0.10 0.6 0.0	0.0 0.0 0.07 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.33 0.0 0.0 0.0	0.0 0.07 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.19 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.08 0.23 0.0 0.0	0.0 0.0 0.C 0.10	0.0 0.0 0.0 0.0
26 27 28 29 30 31	0.0 0.0 0.0 0.0 0.62 0.0	0.07 0.0 0.0	1.00 0.83 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.59	0.0 0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.67 0.05	0.0 0.0 0.15 0.0
TCTAL STA AV	2.33 1.78	3.45 2.16	3.24 2.50	4.87 4.11	0.64 3.76	1.65 2.66	0.0 3.18	0.48 2.40	3.06 4.52	1.15 4.82	3.12 2.37	0.23 2.31

Air Temperature: See table for Watershed C, p. 42.002-1.
Gaging: Bain gage W1B.
Station Averages: 9 yr beginning 1969 (part-year records ircluded).

Cooperative Research Project of USDA and Texas Agricultural Experiment Station

157	7	BEAN DAIL	IISCHAF	GE (CFS)			FIFSFI	(%200), 1	EIAS SAI	EBSEED W-	12	
Lay	Jan	P∈b	Bar	Apr	Bay	Jus	Ju1	Aug	Sep	Cct	₽CA	D€C
1	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.)	0.6	0.0	0.0
2	0.3	0.0 1	3_0	0.0		0 - 0	0.0	i} _ 0	0.0	0.0	0.0	0.0
3		0-002	0.008	0.0	0.0		0-0	0.0	0_0	0.0	0.0	0.0
4		0.0	0.0	0.0			0 - 3	0.0	0.0	0.0	0.0	0.0
5	0.0	0 - 0	0.0	0.0	9-6	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0
6			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	9.0	6.0
E	0.0	0 - C	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0 - 0	0.0	0.0
ç	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	6.0
10	0 - 0	0.015	0.0	0.0	0.0	0.0	0 - 0	C - 0	0.0	0.0	0 - 0	0.0
11	0.0	0.573	0.3	0 - 0	0.0	0_0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.007	0.0	6_0	3.0	0.0	0.0	0.0	0.0	0.0	0_0	0.0
13	0.011	0 . 00 1	0_0	0.0	0.0	0.0	0 - 0	0.0	0.0	0 - 0	0.0	0.0
14	0.001	0.0	0.0	0.0	0.0	0.0	0-0	0.8	0.0	0.0	0.0	6.0
15	0.0	0 - 0	0.0	0.185	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0
16	0 - 0	0.0	0.0	0.327	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.3	0.0	0.003	3.C	0.0	0-0	0.0	0.0	6.0	0.0	0.0
18	0 - 0	0 - 0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.083	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
21	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	C.O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0
24	C.O	0.0	6.0	0.0	0.0	0.3	3.0	0.0	0.0	0.0	0.0	6.0
25	0.0	0_0	0 - 0	0_0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
2 €	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	G - O
27	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.012	0.0	0-0	0.0	0 - 0	0_0	0.0	0.0	0.0	0.0
29	0.003		0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0 - 0	U_0
30	0.001		0_0	0.0	0.0	0.0	0.0	0.0	0.0	0_0	0.0	00
31	0.0 I		0.3		0.0		0.0	0.0		0.0		C-0
EAB		0.0214	0.0012	0.0199	C.O	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BCHES			0.090	1.439		0.6	0.0	0.0	0.0	0.6	0.6	0.0
VA AL	0.081	0.331	0.317	0.902	0.464	0.466	0.353	0.166	0.604	1.009	0.524	0.477

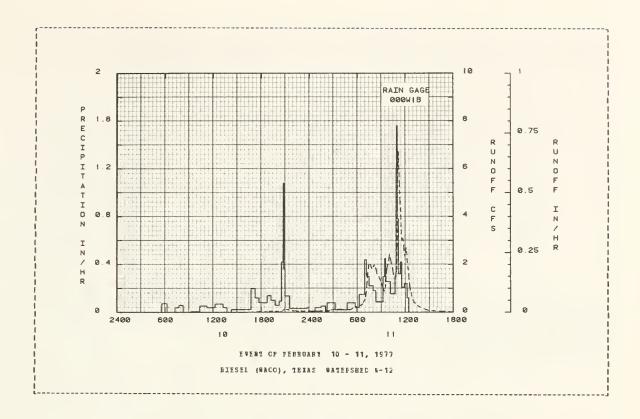
Conversion Eactor: CFS to IN/LAY, multiply by 2.404207. Station Averages: 9 yr beginning 1969 (part-year records included).

377	SELECTED FOR	OFF EVENT				RIESEL (WA	ACC), TER	AS WATERS	BEC W-12	
3 KEE C	TORRE CCROT	BICKC		F 3	THE 1 7 7			FORCE	YE .	
[at∈	Fainfall	Buncff	Date	Time	Intensity	lcc.	Date	Time	Bat∈	Acc.
Bo-Day	(icches)	(inches)	Bo-Day	of Cay	(in/br)	(inches)	Bc-Day	of Lay	(cfs)	(incles)
			905	NT OF SEC	- 01 Y AEUB	11 1677				
			F.			11, 1377				
	EG 000W1F			FG 000						
2-10	0.0	0.0	2-10	535	0.0		2-10	1540	0.0	0.0
				615	0.0750			1549	0.0	0.0
				715	0.0			1600	0.001	
				745	0.0430			16 14 16 47	0.002	0.0000
				815	0.0600	0.13		1647	C_010	0.0004
	D COBILITIONS									
7% sorgh	us; 3% Bersu	dagrass		915	0.0	0.10		1701	0-020	0.0007
aterway.	good cover.	-		10 20	0.0092	0.11		1745	0.036	0.0028
	-			1115	0.0545	0.16		1800	0.036	0.0037
				1215	0.0400	0 - 20		1834		0.0057
				1315	0.0700	0.27		1846	0.033	0.0063
				1345	0.0400	0.29		1904	0.046	0.0075
				1416	0.0			1925	0.038	0.0090
				1530	0.0243	0.32		1945	0.041	0.0103
				1645	0.0240	0.35		20 15	0.034	0.0122
				1715	0.2000	0.45		2029	0.028	0.0129
				1745	0.1200	0.51		2033	0.034	0.0131
				1845	0.0600					0.0136
				1915	0 - 1400	0.66		2045	0.065	0.0142
				1945	0.1000	0.71		2050	0.118	0.0150
				20 16	0.0581			2057	0.126	0.0165
				2035	0.0547			2110	0.118	0.0191
				2045	0.4200	C.E4		2130	0.097	0.0227
				2050	1.0600			2155	0.071	0.0262
				2100	0.3600	0.55		2240	0.040	0.0304
				2135	0.1371	1.07		2300	0.049	0.0319
				2230	0.0327	1.10		2330	0.049	0.0343
				2345	0.0320	1-14		2400	0.051	
				2400	0.0400		2-11	39 49	0.052	0.0402
			2-11	45	0.0			49	0.054	0.0411
				130	0.0400	1.16		139	0.05€	0.0457

Conversion Factor: CFS to IB/HB, multiply by 0.100175.

		TCNS							-	
Date P	ainfall irches)	Buncff (inches)	Date Mo-Day	Time of Cay	Intensity (in/br)	Acc. (inches)	Dat∈ Sc-Day	Tise of Day	Bate (cfs)	Acc. (inches)
					10 - 11,					
			2-11	205 215 315 445 545	0.0514 0.0 0.0600 0.0200 0.0200	1.21 1.21 1.29 1.32	2-11	215 235 245 255 300	0.065 0.078 0.097 0.107 0.107	0.0493 0.0516 0.0531 0.0548 0.0557
				615 655 710 730 800	0.0400 0.1500 0.4400 0.3000 0.2200	1.42 1.52 1.63 1.73			0.134 0.126 0.109 0.107 0.171	
					0.1800 0.0873 0.3000 0.4500 0.2571			545 600 625 640 647	0.220 0.252 0.276 0.351 0.417	0.0912 0.0971 0.1081 0.1159 0.1204
					0.1543 0.3000 1.2000 1.5600 0.7800			659 705 709 714 717	0.540 0.661 0.878 1.148 1.471	0.1300 0.1360 0.1412 0.1455 0.1562
					0.3200 0.4200 0.2100 0.2400 0.1200			721 727 739 749 800	1.679 2.008 2.008 1.834 1.904	0.1667 0.1852 0.2254 0.2575 0.2916
								809 819 830 845 905		0.3209 0.3529 0.3848 0.4233 0.4670
								925 932 936 941 950		0.5010 0.5120 0.5196 0.5326 0.5610
								1000 1003 1019 1034 1045	2.276 2.434 2.008	0.5968 0.6086 0.6679 0.7127 0.7404
								1052 1057 1100 1102 1104	1.915	0.7578 0.7722 0.7838 0.7555 0.8118
								1107 1110 1113 1118 1123	6.716 6.124 5.239	0.8421 0.8754 0.9076 0.9550 0.9957
								1127 1132 1136 1139 1142	5.26E 2.992 3.049	1.0242 1.0547 1.0756 1.0507 1.1061
								1147 1152 1156 1200 1205	2.964 2.573 2.360 2.360 2.625	1.1314 1.1545 1.1710 1.1867 1.2075
								1209 1218 1230 1240 1245	2.704 2.061 1.369 0.930 0.822	1.2253 1.2611 1.2955 1.3147 1.3220
								1259 1314 1340 1355 1453	0.516 0.374 0.261 0.207 0.076	1.3376 1.3488 1.3626 1.3684 1.3822
								1657 2101 2400	0.038 0.024 0.021	1.3942 1.4069 1.4136

Conversion Eactor: CPS to IB/HE, multiply by 0.100175.



42.039- 4

RIESEL (WACO), TEXAS WATERSHED W-13

ICCATION: Falls County, Texas; 18 miles southeast of Waco; Frazos River Basin. Iat. 31 deg. 27 min. 57 sec. N.; long. 96 deg. 53 min. 08 sec. F.

#.C	FIBLE	PRECIE	ITATION	AND TON	CFE (INCF	ES)		EIF	SEI (WAC	O), TEXA:	S WATER	SHEC W-	13	
		Jan	?eb	ĕar	ytı	€ay	Jnn	Jul	Aυς	£e₽	Oct	8 C V	Dec	irnual
1977	P Q	2.33	3.45 1.361	3.24 0.093	4.67 1.650	0.64 0.0	1.65 0.0	0.0	0.48 0.3	3.06 0.0	1.15 0.0	3.12 0.0	0.23	24.22 3.654
VA AIS	P Q	1.76	2.16 0.415	2.50 J.300	4.11 1.124	3.76 0.555	2.66 0.463	3.18 0.270	2.40 0.051	4.52 0.492	4.62 0.870	2.37 0.404	2.31 0.484	36.55° 5.549
	ANNO	Mexi	อบอ		'		Maximum	Volume f	cr Selec	ted Time	Interva	1	INTERVALS	
		Disch Date		1 Hcu Lat∈ V		Hours			12 Ecnrs at∈ Vcl		Day Yol.	2 Da Cat∈		6 lays te Vcl.
		2-11	0 6 15	2-11 0	1163 2-1	1 0 721	2-11	1 500 0	_11 1 7	53 2-10	3 646	2-10	1.655 2-	E 1 0EE
1977		_	4.015	2 11 0	.403 2-1	0.721	2-11	1.524 2	11 1.7	- 1 10	1.040	2-10	1.0.3 2	5 1.625
1977			4.015	2 11 0	.403 2-1			FICE CF		- 110	11040	2-10	1.0.3 2	5 1.625

Watershed Conditions: 96% sorghum: 4% grassed waterway. Cropland planted on graded furrows.
Bars: Topographic/Bydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969,
USIA Misc. Pub. 1370, p. 42.040-i.
Frecipitation: Tata from rain gage W11.
Eunoff: Records began October 1, 1969. Part-year records included in station averages.
Long-Term Precipitation: National Weather Service records at Waco, Texes.

1977	ום	AILY PREC	IFITATICE	(INCHES)			BIESEL	(WACC), I	EXAS WAT	HEBEL 4-	13	
Lay	Jan	P∈b	Bar	Apr	Bay	Jur	Jul	Ang	S€Ę	Oct	Nov	D∈c
1	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.44	0.0
2	0.09	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.39	0.05	1.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	9.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ϵ	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	5.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0
ç	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.33	0.0	1.86	0.0
10	0.0	1.15	0.0	0.0	0.0	0.0	0.0	0.0	2.38	0.79	0.0	0.0
11	0.0	1.88	0.22	0.0	0.0	0.24	0.0	0.0	0.0	0.05	0.0	0.0
12	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.6	0.0	0.0
13	0.95	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.08
14	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.06	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	2.24	0.0	0.99	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.91	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.68	0.0	0.0
22	0.10	0.0	0.0	0.0	0.0	0.07	0.0	0.19	0.0	0.23	0.0	0.0
23	0.10	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.10	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.07	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	3.0	0.0	0.83	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
28	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.15
30	0.62		0.0	0.59	0.0	0.0	0.3	0.0	0.0	0.0	0.05	0.0
31	0.0		0.0		0.15		0.0	0.0		0.0		0.0
TCTAL	2.33	3.45	3.24	4.87	0.64	1.65	0.0	0.48	3.0€	1.15	3.12	0.23
STA AV	1.78	2.16	2.50	4.11	3.76	2.66	3.18	2.40	4.52	4.82	2.37	2.31

Air Temperature: See table for Watershed C, p. 42.002-1. Gaging: Rain gage W1B. Station Averages: 5 yr beginning Oct. 1, 1965 [part-year records incinded).

Cooperative Besearch Project of OSDA and Texas Agricultural Experiment Station

42.040- 1

197	7	MFAB DAIL	T EISCHAR	GE (CFS)			EIESEL	[WACC], I	EXAS VAT	EBSBEL 9-	13	
Cay	Jan	P∈b	Bar	2pr	tey	Jun	Jul	Aug	Sep	Cct	ĕc∀	D€C
1	0.0	0.0 I	6.0	0.0	0.0	3.0	0.6	0.0	0.0		0.0	0 - G
2	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	7.6	0.6	0.0	0.0	0.0
3	0.0 1	0.003	0.012	0.0	0.0	0.0	3.0	0.0	0 - *1	0.0	0.0	0.0
4	0.001	0.0	0.0 T	0.0	3.0	0.0	0.)	0.0	0.0	0.0	0.0	€.0
Ē	0.0 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
7	3.0	0.0	0.0	0.0	6.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.G	0.0
9	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	U. 0	0.0	0.0	0.0
10	0.0	0.024	0.0	0.0	3.0	0.0	3 - C	0.0	0 - 0	0.0	0 - C	0.0
11	0.0	0.856	0.0	0.0	0.0	0.0	0 - 0	0.0	0.3	0.0	0.0	0.0
12	0.0	0.0)1	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0_014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.001	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
15	0.0		0.0	0.261	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
16	0.0	0.0	0.0	0.405	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0 - 0	0.0	0.002	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0
16	0.0		0.0	0.0	3.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.9	0.0	3.0	0.0	0.0	0.3	0.0	0-0	0.0	0.0
23	0.0	0.0	0.0	0.115	0.0	0.0	0.0	0.0	0.0	0.0	0.C	0.0
21	0.0	0.0	0.0	0.001	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	C-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.002	0.0	0.0	0.0	0_0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.3	0.018	0.0	0.0	0.0	0.0	1.0	0.0	0.0	G.0	0.0
28	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.004		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.003		0.3	3.0	0.0		0.0	9.0		0.0		0.0
EPAB	0.0006	0.0316	0.0014	9.0261	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
		1.861	0.093	1.650	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIA AV	0.082	0.415	0.300	1.124	0.595		0.270		0.492		0.404	0.484

Conversion Eactor: CFS to IB/CAY, multiply by 2.106341.
Station Averages: S yr beginning Oct. 1, 1965 [part-year records included).

	ECEBT CCEDI	PTORS		E 8.3	 IBFAII			FORCE	F	
Cat∈ Mo-Day	Rainfall (inches)	Runcff (inches)	Date So-Day	Time of Day	Intensity [in/hr]	Acc. (inches)	Eat∈ Bc-Eay	Tiπ∈ of Cay	Fate [cfs]	Acc. (irches)
			EVE	OT OF FEEL	GOARY 10 -	11, 1977				
	EG OCOW12			BG 000						
2-10	0.0	0.0	2-10	535	0.0	0.0	2-10		0.0	0.0
				615	0.0750			1554	0.0	0.0
				715	0.0	0.05		16 10	0.002	0.0000
				745	0.0400			1629	0.006	0.0001
				615	0.0600	0.10		1649	0.019	0.0004
	D CCHCITIONS									
	us; 4% Fernu			915	0.0	0.10		17 1 5	0.027	0.0012
aterway.	good cover.			1020	0.0092	0.11		1735	0.034	0.0021
	-			1115	0.0545	0.16		1759	0.046	0.0035
				1215	0.0400	0.20		1829	0.043	0.0054
				1315	0.0700	0.27		1839	0.039	C.0060
				1345	0.0400	0.25		1849	0.050	0.0067
				1416	0.0	0.29		1925	0.045	0.0093
				1530	0.0243	0.32		1949	0.046	0.0110
				1645	0.0240	0.35		20 15	0.036	0.0125
				1715	0.2060	0.45		2029	0.048	6.0134
				1745	0.1200	0.51		2034	0.067	0.0138
				1845	0.0600	0.59		2039	0.087	0.0144
				19 15	0.1400	0.66		2045	0.142	0.0154
				1945	0.1000	0.71		2050	0.174	0.0165
				2016	0.0581	0.74		205B	0.166	0.0186
				2035	0.0947	0.77		2110	0.142	0.0215
				2045	0.4200	C.64		2115	0.129	0.0225
				2050	1.0600	0.93		2124	0.162	0.0245
				2100	0.3600	0.99		2134	0.183	0.0270
				2135	0.1371	1.07		2154	0.137	0.0317
				2230	0.0327	1.10		2214	0.102	0.0352
				2345	0.0320	1.14		2234	0.061	0.0379
				2400	0.0400	1. 15		2250	0.086	0.0399
			2-11	45	0.0	1.15		2259		0.0511
			2 11	130	0.0430	1.18		2330	0.054	0.0455

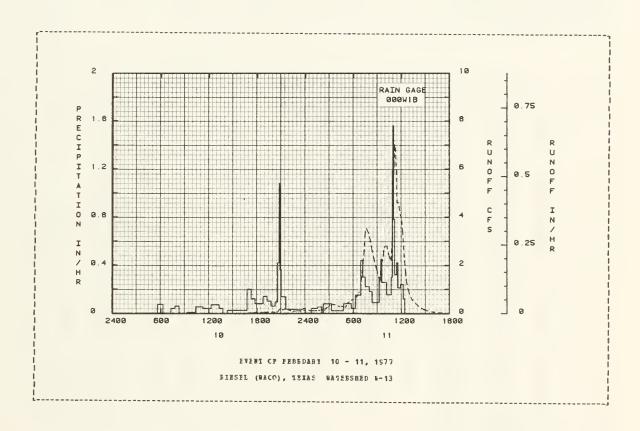
Conversion Factor: CFS to IB/BF, multiply by 0.087764.

	LECTED RUNG					FIRSEL (WA				
Eate Eo-Day	PRI CCNDIT Painfall (inches)	Runcff (inches)	Date Mo~Day	Time cf Lay	Intensity (in/hr)	lcc. (inches)	Date Bc-Day	Time of Day	Fate (cfs)	Acc. (inches)
						1977 (CC)				
			2-11	205 215 316 445 545	0.0514 0.0 0.0600 6.0200 0.0600	1.21 1.21 1.29 1.32 1.40	2-10 2-11	2349 2400 25 42 49	0.117 6.106 0.106 0.102 0.104	0.0464 0.0502 0.0547 0.0567 0.0578
				615 655 710 730 800	0.0490 9.1500 0.4400 0.3000 0.2200	1.42 1.52 1.63 1.73		124 140 149 159 214	0.097 0.113 0.117 0.129 0.125	0.0629 0.0654 0.0669 0.0687 0.0715
				820 915 927 935 10 10	0.1800 0.6873 0.3000 0.4500 0.2571	1.90 1.98 2.04 2.10 2.25		224 229 235 244 255		0.0733 0.0743 0.0759 0.0769 0.0831
				1045 1051 1055 1100 1110	0.1543 0.3000 1.2000 1.5600 0.7600	2.5€		304 324 344 405 419	0.336 0.358 0.351 0.301 0.259	0.0973
				1125 1135 1165 1215 1225	0.3200 0.4200	2.79 2.86 2.93 3.01		429 489	0.288 0.259 0.247 0.326 0.434	0.1274
								529 544 600	0.473 0.543 0.567 0.667 0.752	0.1557 0.1668 0.1758 0.1570
								640 645 685 657 703	0.849 0.866 1.003 1.179 1.522	0.2259
								716	1.837 2.273 2.651 2.980 3.410	0.2900
									3.535 3.316 3.095 2.759 2.534	
									2.285 1.939 1.661 1.348 1.259	
								924 929 936 942 948		0.7619 0.7745 0.7959 0.6146 0.8358
								954 1001 1012 1022 1035	2.772 2.759 2.813 2.483 2.267	0.8595 0.8880 0.9351 0.9719 1.0170
								1043 1049 1052 1055 1059	2.210 2.704 3.333 4.344 5.179	1-0432 1-0648 1-0780 1-0549 1-1227
								1105 1110 1115 1122 1128	6.331 7.010 6.866 5.909 4.600	1.1752 1.2220 1.2726 1.3382 1.3843
								1139 1147 1153 1200	4.600 4.255 4.046 3.554	1.4583 1.5101 1.5465 1.5877

Conversion Factor: CPS to IN/86, multiply by 0.087764.

977	SELECTED BONG	OPP EVENT				FIFSEL (WA	CC), TEX	AS WATEFS	BEC 6-13	
ABTEC	EDENT CONDIT	TICES		EAI	NEALL			FUNCE		
Eat∈ Mo-Day	Fainfall (ircbes)	Funcff (inches)		Ti∎∈	Intensity (in/br)	lcc. (inches)	[at∈ Eo-Day	Ti∎∈		Acc. (inches)
			EVENT CE	FEEEGABY	10 - 11,	1977 (CC)	(13UJIF			
							2-11	1219	2.625	1.8818
								1227	2.002	1.7088
								1235	1.587	1.7295
								1239	1.325	1.7380
								1244	1.167	1.7471
								1252	832.0	1.7558
								1300	0.606	1.7701
								1324	0.529	1.7936
								1410	0.266	1.6211
								1452	0.129	1.8342
								1545	0.082	1.6420
								1708	C-023	1.8471
								1856	0.009	1-8457
								2213	0.008	1.6516
								2400	0.005	1.6527

Conversion Factor: CES to IN/EE, multiply by 0.087764.



42.040- 4

MCNTICELIC, IILINCIS (ALLEFTON) WATERSHEE IA

LCCATION: Piatt Co., II; 5 mi. SW of Ecnticello, Sangamon Fiver, Illinois Biver, Mississippi Fiver basin. Lat. 35 deg. 59 min. 42 sec. N.: Iong. 68 deg. 38 min. 45 sec. W.

AFFA: £2.0c acres

H C	NTHI	PRECIE:	ITATION	VNE EANCI	FF (INCFI	S)		ac Mil	FIIC, II	LINCIS (ALLESION) WAT:	FDSBFC	IA	
		Jan	F∈b	Bar	FLI	May	Jnn	Jul	λτg	£€₽	Cct	Nc ▼	D∈c	ı	rnnal
1977	F Q	1.12	1.34 0.0	5.48 0.9	2.39 0.0	5.86 0.574	2.8 0 0.0	8.76 0.670	10.35 2.135	4.03 0.002	4.69 1.007	2.2 0.0	2.34		1.18 4.368
SIA AV	P Q	1.72 0.168	1.98 0.257	2.87 0.060	3.55 0.155	3.71 0.109	4.42 0.452	4.31 0.204	3.49 0.141	3.10 0.002	2.98 0.141	2.12 0.004	2.34 0.19		6.51 1.912
	ANNO	Maxio	 tvæ	HAFGF (in		t	aximum	Vclume i	for Selec	t∈d lime	Interva	1			
		Discha Date 1		1 Bour Dat∈ Vol		Hons Vol.			12 Hobis at∈ Vol		Day Vcl.				Vol.
1977		8- 7 (. 6 10	8-7).5	39 8- 7	0.898	€- 7	1.535	- 6 1.7	0ε ε- 6	2.092	8- 5	2.127	7-30	2.134
						MAXIMOMS	FCR FF	FICE OF	FECCED						
		6- 6 1 1973		6- 6 0.5 1973	568 B- 7 1977		E- 7 1977		5-22 2.2 1974	\$8 €-22 1 \$74	2.511	6-21 1974	3.578	6-15 1974	3.593

Astershed Conditions: With the exception of a small portion (3.6%) devoted to roads and 14.7% in permanent pasture, the entire area is used for cropping activities.

Maps: Topographic/Bydrologic - Data for Experimental Agricultural Watersheds in the United States, 1974, USCA Bisc. Fub. 1437, p. 61.001-23.

Precipitation: Fecords began August 1949. Data from E-1 gage, located about 400 ft. east of streamgaging station IA. Bunoff: Records Legan August 1945.

Long-Term Precipitation: National Weather Service records at Decatur, Illinois.

1977) E	AILY PREC	IPITATICE	(INCHES)		B.	CNIICFILC	ILLINCIS	(AIIERI	R) SAT	EBSHED IA	
Day	Jan	P∈b	Bar	Apr	tay	Jun	Jnl	Ang	S€₽	Cct	BC V	Lec
1	0.0	0.0	0.0	0.65	0.51	0.0	0.0	0.0	0.0	1.61	0.34	0.10
2	0.0	0.0 0.0	0.08	0.19 6.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.12
4	0.31	0.0	0.09	0.24	1.23	0.0	0.0	1.03	0.03	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	1.22	0.0	0.0	0.43	0.27	0.08	0.02	0.73
ε	0.08	0.0	0.0	0.0	1.76	0.0	0.0	2.67	0.0	0.0	0.14	0.0
7	0.0	0.0	0.0	0.0	0.0	0.25	0.52	2.62	0.0	1.08	0.07	0.0
e s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.05	0.0	0.50
10	0.05	0.0	0.0	0.0	0.0	0.08	0.0	0.86	0.0	0.0	0.0	0.0
11	0.0	0.0	0.36	u.0	0.0	0.05	C.0	0.52	0.0	0.06	0.0	0.0
12	0.0	0.12	1.12	0.0	0.0	0.0	1.87	0.0	1.02	0.0	0.0	0.0
13 14	0.20 0.0	0.0 0.13	0.05	0.0	0.0	0.12	0.0	0.0	0.67	0.0	0.0	0.55
15	0.06	0.13	0.0	0.0	0.0	0.0	0.61	0.0	û . 22	0.04	0.06	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	2.58	0.11	0.0	0.0	6.0	0.0
17	0.0	0.0	0.48	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0
18	0.02	0.11	0.28	0.0	0.0	0.0	0.3	0.0	0.06	0.0	0.0	0.0
15	0.06	0.08	0.11	0.31	0.0	0.0	0.3	0.0	0.0	0.0	0.16	0.04
20	0.0	0.0	0.02	0.0	0.0	0.0	0.10	0.03	C.0	0.0	0.16	0.06
21	0.0	0.0	0.25	0.0€	0.0	0.0	1.41	0.27	0.0	0-0	0-0	0.05
22 23	0.0	0.0	0.20	0.77	0.0	0.60	0.0	0.0	0.0	0.0 1.20	0.0 0.08	0.0
24	0.0	0.46	0.0	0.08 0.0	0.0	0.0	0.0	0.03	0.62	0.23	0.00	0.0
25	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.08	0.0	0.0
26	6.6	0.32	C.0	3.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
27	0-0	0 -0 4	0.77	0.0	0.0	1.31	0.0	0.0	0.0	0.0	0.0	0.0
28	0.26	0.0	1.27	0.07	0.34	6.10	0.0	1.45	0.0	0-0	0.65 0.20	0.0
29 30	0.0		0.0	0.0	0.0	0.0 0.21	0.45	0.13 0.0	0.54	0.0	1.01	0.05
31	0.0		6.0		0.0		0.89	0.0		0.06		0.03
TAL	1.12	1.34	5.48	2.35	5.86	2.80	€.76	10.05	4.03	4.69	2.32	2.34
VA AT	1.72	1.98	2.87	3.55	3.71	4.42	4.31	3.40	3.10	2.56	2.12	2.34

Gaging: Data are from the R-1 gage. Station Averages: 29 yr beginning 1949 (part-year records included).

Cooperative Research Project of the Agricultural Engineering Cepartment, Univ. of Illinois and USCA

197	7	BEAN DAIL	Y IISCHAE				ECBTICFIIC.			CF) WAS	FESEEL IA	
Day	Jan	F€b	Bar	Apr	žey	Jur	Jt1	Aug	S∈È	Cct	FCV	Lec
1	C.O	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	3.209	0.0	0.0
2 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0		0.0	0.0	0.001			0.025	0.0	0.0		0.0
5	0.0	0.0	0.2	0.0	0.03 T	0.0	0_0	0.025	0.0	0.0	0.0	0.0
6	0.3	0.0	0.3	9.0	1.974	0.0		1.443	0.6	U.C	0.6	0.0
7	0.0	0.0	0.0	0.0	0.004	0.0	0.0	483.2	0.0	0.157	0.0	0 - 0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.057	6.0	0.0
9	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0 I	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.904	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0 - 0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.)	0.0	0.3	0.0	2.028	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0_0	0.0	0.0
18	0.0	0.0	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
19	0.0	0.0	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	U.266	0.0	9.0	0.0	0.0	6.0
22	0.0	0.0	0.0	3.0	0.0	0.0	0 - C	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.046	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I		0.0	0.0
25	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	C _ C	0-0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0
29 30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
MEAB	0.0	0.0	0.0	0.0	0.0638	0.0	0.0744	0.2373	0.0002	0.1119	0.0	0.0
IBCHES	0.0	0.0	0.0	0.0	0.574		0.670	2.135		1.007		0.0
STA AV	0.166	0.257	0.380	0.155	0.109	0.452		0.141	0.002	0.141	0.004	0.156

Conversion Factor: CFS to IB/LAY, multiply by 0.250264. Station Averages: 25 yr beginning 1949 (part-year records included).

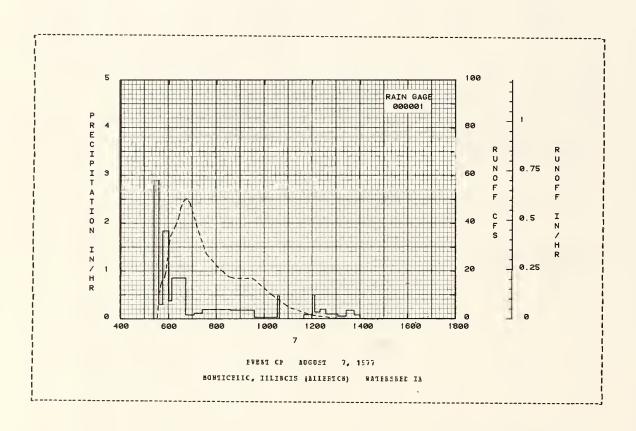
77 SE	LECIPD RUNG	DPF EVENT			HG!	TICELIC,	ILLINCIS	(ALLEBICE)	FATIFSB	EC IA
ARTECEE	ERI CCEDI	TIOKS		FA	INFAII			FUNCE		
Iat€	Bainfall	Suncff	Dat∈	Time	Intersity	Acc.	Iat∈	Time	Fate	Acc.
ас-рау	(11Ches)	(1DChes)	по-паў	or pay	(in/hr)	(1DCbes)	y	or nay	(CIS)	(1DCDEE)
			F	VENT CF	A0GOST 7	, 1977				
В	G 000001			EG 000	001					
e- 7	0.12	0.142	8- 7	523	0.0 2.5030	0.0	6- 7	402	0.064	0.0
				535	2.5000	0.56		4 13	0.002	0.0001
				545	0.2599	0.63		418	0.006	0.0001
				600	0.2599 1.6400	1.05		4 18 5 25	0.026	0.0003
					0.3750			532	0.578	0.0007
	CCBLITICNS: s. 14.7% -	:		643	0.8571	1.68		538	4.076	0.0017
	astnie, rei	nainder		705	0.0818	1.67		536	11.079	0.0047
	activities			725	0.1200	1.71		538		0.0093
,	40.1.1010	-		835	0.1972	1.94		540	13.673	0.0144
				935	0.1800	2.12		544	15.550	0.0264
				1033	0.0310	2.15		550	17.435	0.0466
				1038	0.4601			553	15.685	0.0576
				1140	0.0			600	29.667	0.0576
				1201	0.0657			603		0.1116
				1207	0.4999			606		0.1322
				1207	0.4355	2.21		000	22.000	0. 1222
				1220	0.1385	2.30		6 2 0	40.083	0.2381
				1235	0.2000	2.35		625	42.364	0.2797
				1305	0.1000	2.40		6 30	46.253	0.3243
				1326	0.0572	2.42		637	45.193	0.3917
				1346	0.1600	2.48		645	50.414	0.4720
				1401	0.0600	2.50		653	46.374	0.5517
								715	36.448	0.7397
								735	27.127	0.6679
								805		1.0147
								£15	19.925	1.0564
								830	17.578	1.1131
								845		1.1651
								9.30		1. 3160
										1.3476
								946		1. 3854

Conversion Factor: CFS to IN/BF, multiply by 0.012094.

E1.001- 2

77 SELECTED BONG	FE EVENT			нсы	TICELIC,	IIIMCIS	(Allebich)	WATERSE	EI IA
ANTECECENT CONDIT Cate Fainfall Bo-Day (irches)	ICKS Runcff (inches)	Dat∈ Mo-Day	FA: Time of Cay	INFALL Intersity (in/hr)	Acc. (inches)	Date Mo-Day	RUNCE Time cf Day	F Rate (cfs)	Acc. (inches)
		EVEDT 6	F AUGUS	7, 197	7 (CCNIIN	IDEE)			
						ê- 7	10 19 1100 1107 1159 1235	19.012 5.031 4.465 1.476 0.745	1.4516 1.5137 1.5204 1.5516 1.5556
							1255 1315	0.197 0.192	1.5615 1.5622

Conversion Eactor: CES to IN/EE, multiply by 0.012394.



MONTICFILO, ILLINGIS (ALLEFTON) GATESSHED IE

LCCATTON: Fiatt Co., Il; 5 wi. SW of Monticello, Sangamon Biver, Illinois fiver, Mississippi Fiver tasit. Lat. 39 deg. 55 wim. 42 sec. N.: Icng. 88 deg. 38 min. 45 sec. W.

AFFA: 45.50 acres

	RIRIY	FFF CIF	ITATICN	ABE FUNO	t (INCFE	S)		HCBTIC	FLIC, ILI	TROIS ()	VLTERICS) WAT	FFSHFE	11:	
		Jan	P∈b	Łar	ytr	2 a y	Jun	Jnl) ng	≲ € Ē	Oct	¥ C ¥	E€C	<u> </u>	renal
1977	P C	1.12	1.34	5.48 0.032	2.39	5.66 0.326	2.80	8.76 0.159	10.05 1.963	4.03 G.GO4	4.69 C.654	2.32 0.001	2.34		1.18 3.185
TA AV	P C	1.72 0.131	1.98 (.27ε	2.87 (.17)	3.55 0.306	3.71 0.164	4.42	4.31 6.165	3.40 0.110	3.10 0.602	2.58 9.172	2.12 0.011	2.34		86.51 1.991
	ANDE														
	4000	žexi:	 D D				axisos	 Vclng∈ f	CFF (inche cr Selecte	ed Time	Inter v a	 1			avs
	Annu		nom arge		2		aximum 6 Hc			ed Time	Interva Day	1 2 Da	 у ε	3	ays Vol.
1977		žaxi Disch	nnm arge Fate	1 Bonr Eate Vc	2 L. Date	Eonis Vol.	laximum 6 Hc Date	Volume f urs	cr Select	ed Time 1 Late	Interva Day Vol.	l 2 Da Date	ує V с 1.	€ I Dat∈	Vol.
 1977		Eaxi Disch Date	nnm arge Fate	1 Bonr Eate Vc	2 L. Date	Eonis Vol.	6 Bc Date	Volume f urs	cr Selecte 12 Bcnrs ate Vol.	ed Time 1 Late	Interva Day Vol.	l 2 Da Date	ує V с 1.	€ I Dat∈	Vol.

Watershed Conditions: 95% crcpping activities; 1% grass.
Baps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1974,
USIA Bisc. Fub. 1437, p. 61.001-23.
Frecipitation: Fecords began Angust 1949. Lata from N-1 gage, located about 300 ft. west of streamgaging station IE.
Buncff: Fecords began Angust 1949.
Long-Term Precipitation: Mational Weather Service records at Lecator, illincis.

1977	E	AIII PREC	IFITATICS	(STECHTS)		8	CMIICFIIC,	311116C15	(ALIFFIC	N) WATE	FSEFE IE	
Lay	Jan	F∈b	ðar	y£ī	Eау	Jaa	Jnl	Aug	Sep	0ct	bc▼	£€C
1 1 1 2 1 3 1 4 1 5 1	0.0 0.0 0.0 0.31	0.3 0.08 0.3 0.0	0.0 0.08 0.42 0.05	0.65 0.19 0.0 3.24	0.51 0.33 0.0 1.23 1.22	0.0 0.0 0.0 0.0	0.0 0.0 0.3 0.3	0.0 0.0 0.0 1.03	0.0 0.0 0.0 0.03 0.27	1.61 0.0 0.0 0.0	0.34 0.0 0.0 0.0 0.0	0.10 0.12 0.07 0.0
 	0.08 0.0 0.0 0.08 0.05	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	1.76 0.0 0.0 0.0	0.0 0.25 0.0 0.0	0.0 0.52 0.0 0.0	2.67 2.62 0.05 0.05 0.66	0.0 0.0 0.0 0.0	0.0 1.08 0.05 0.0	0.14 0.07 0.0 0.03	0.0 0.0 0.50 0.0
1 11 1 12 1 13 1 14 1 15	G.0 0.0 0.20 0.0 0.0€	0.0 0.12 0.0 6.13	0.36 1.12 0.05 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.05 0.0 0.12 0.0 0.0	0.0 1.67 0.0 0.0	0.52 0.0 0.0 0.0	0.0 1.02 0.87 0.0	0.06 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.55 0.0
 16 17 18 19 20	0.0 0.0 0.02 0.06 0.0	0.9 0.0 0.11 0.08 0.0	0.0 0.48 0.26 0.11	0.0 0.0 0.0 0.31	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	2.58 0.13 0.0 0.0 0.10	0.11 0.0 0.0 0.0 0.0	0.0 0.0 0.06 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.16	0.0 0.0 0.0 0.04 0.06
21 22 23 24 25	0.0 0.0 0.0 3.0	0.0 0.0 0.46 J.J	0.25 0.29 0.0 0.9	0.08 9.77 0.08 0.0	0.0 0.0 0.0 0.0	0.0 C.60 O.0 0.08	1.41 0.0 0.0 0.3	0.27 0.0 0.03 0.0	0.0 0.0 0.0 0.62	0.0 0.0 1.20 0.23 0.08	0.0 0.0 0.08 0.0	0.05 C.0 0.0 0.0
1 26 1 27 1 26 1 29 1 30	0.0 0.0 0.26 0.0 0.0	0.32 0.34 0.0	0.0 0.77 1.27 0.0 0.0	0.0 0.0 0.07 0.0	0.0 0.34 0.0 0.0	0.0 1.31 0.10 0.0 0.21	0.0 0.0 0.0 6.45 0.0	0.0 0.0 1.45 0.13 0.0	0.0 0.0 0.0 0.54	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.05 0.20 1.01	0.0 0.0 0.0 0.0 0.0 0.0
ICIAI STA AV	1.12 1.72	1.34 1.98	5.48 2.87	2.35 3.55	€.66 3.71	2.60 4.42	€.76 4.31	10.05	4.03 3.10	4.69 2.56	2.32 2.12	2.34 2.34

Gaging: Data are from the F-1 gage. Station Averages: 29 yr beginning 1949 (Fart-year records included).

Compensative Research Project of the Agricultural Engineering Department, Oniv. of Illinois and USDA

197	7	MEAN DAIL	Y LISCHARO	SE (CFS)			CNTICFIIC,	1111RCIS	(ALLERT	CN) WAT	FFSEFC 1E	
Day	Jan	F∈b	Mar	Apr	Ħay	Jur	Jul	Aug	Sep	Oct	₿¢∀	rec
1	0.0	0.0	0.0	0.002	0.0	0.0	0.3	0.3	0.G	1.067	0.001	0.002
2	0.0	0.0	0.0	3.0	0.0	9.0	0.0	6.0	0.0	0.0	0.0	G.0
3	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L!	3.6	0.0	0.0	0.0	0.001	0.6	0 - 3	0.009	U-0	0.0	0.0	0.0
Ē	0.0	0.3	0.0	0.0	0.003	0.0	0.0	0.007	0.0	0.0	0.0	0.001
€	0.0	0.0	0.0	0.6	0.615	0.0	0.0	0.690	0.0	0.0	0.0	0.0
7	3.3	0.6	0.5	9.3	0.005	0.6	0.0	2.783	0.0	0.077	C.O	6.0
8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.043	0.0	0.118	0.0	0.0
ç	0.0	0.0	6.8	0.0	0.0	0.0	6.2	C.0 I	0.0	0.0	0.0	0.0
10	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.202	0.0	0.0	0.0	0.0
11	0.9	0.0	0.0	6.0	0.0	0.0	0.6	0.013	0.0	0.0	0.0	0.0
12	6.3	0.0	0.001	0.0	6.0	0.6	0.004	C. U. T	0.0	0.0	0.0	0.0
1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0
14	9.0	6.001	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.6	0.0	0.0	0.0	0.00€	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.235	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0 T	0.0 T	0.0	0.0	0.3	0.0	G . O	0.0	0.0	3.0	0.0
19	0.0	0.0 T	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	6.6	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
21	0_0	0.0	0.0	0.0	0.0	0.0	0.060	0.0	0.0	0.0	0.0	0.0
22	0.0	0.091	0.0 T	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.043	0.0	0.0
24	0.3	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.001	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.001	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
27	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	6.0	0.0	0.059	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0
29	0.0		0.0	0.6	0.0	0.0	0.0	U-0	0.0	0.0	0.0	6.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.004	C.0	0.0 I	0.0
31	0.0		C.0		0.0		0.0	0.0	,	0.0	,	6.0
FAN	0.0	0.0062	0.9320	0.0001	0.0201	0.0	0.0056	0.1211	0.0002	0.0428	0.0	0.0001
NCBFS	0-0	0.203	0.332	0.001	0.326	0.0	0.155	1.963	0.004	0.654	0.001	0.001
VA AF	0.131	0.278	0.170	0.30€	0.164	0.383	0.165	0.110	0.002	0.172	0.011	0.078

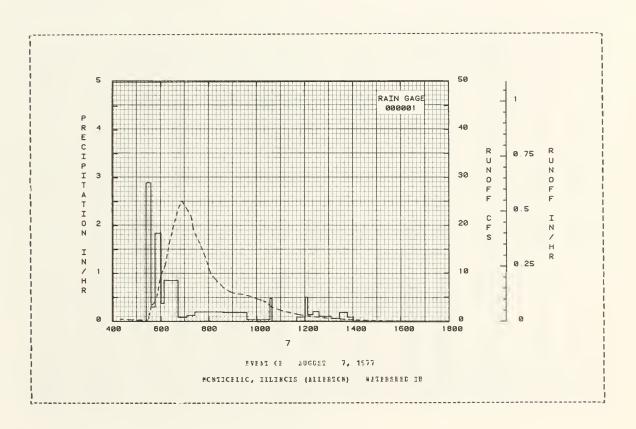
Conversion Factor: CFS to IN/DAY, multiply by 0.523113.
Station Averages: 2S yr beginding 1945 [part-year records included].

77	SELECTED BON	OFF EVENT			M C N	TICELIC, I	LIINCIS	(AILEBTON)	WATERSE	FC IE
	FDENI CCNDI				INFAII			FONCEE		
Lat∈	Fainfall				Intensity					Acc.
Ho-Day	(irches)	(inches)						or cay		
			_			4655				
			r	VENT CF	100001 7	, 1977				
	RG 000061			EG 000						
E- 7	0.12	3.164	8- 7	523	0.0	0.0	e- 7	417	0.449	0.0
				535	2.5000	0.58		443	0.333	0.0037
				545	0.2999	0.63		504	0.267	0.0060
				600	1.6400	1.09		523	0.220	0.0077
				608	0.3750	1-14		526	0.301	0.0079
ATEPSEE.	c continions	:								
e ar∈a	is used for	crerring		643	0.6571	1.64		529	0.582	0.0064
	s except for			705	0.0818	1.67		5.30	0.943	9.00€7
ass.				725	0.1200	1.71		531	1.350	0.0051
				635	0-1972	1.94		532	1.75€	0.0057
				935	0.1800	2.12		534	2.455	0.0112
				,,,,	0.100	2.12			2.430	0.0112
				1033	0.0310	2.15		535	2.945	0.0122
				1038	0.4601	2.19		538	3.458	0.0157
				1140	0.0	2.19		539	3.525	0.0176
				1201	0.0657	2.22		541	3.671	0.0156
				1207	0.4599	2.27		546	4.361	0.0269
				1207	0.4595	2.21		546	4.301	0.0209
				1220	0.1385	2.30		552	5.764	0.0360
				1235	0.2000	2.35		556	€.19€	0.0481
				1305	0.1000	2.40		601	9.823	0.0645
				1326	0.0572	2.42		611	11.735	0.1036
				1346	0.1800	2.46		€23	17.101	0.1665
				1346	0-1000	2.40		623	17.101	0.1003
				1401	0.0800	2.50		644	23.645	0.3219
				1401	0.000	2.00		653	25.135	0.4017
								705	23.496	0.5077
								705 716	21.907	0.5584
								716 722	19.042	
								122	15.042	0.6430
								741	15.626	0.7627
								752	13.026	C. 8208
									9.916	0.8752
								805	8.755	0.6752
								816		
								838	6.919	0.9751

Conversion Factor: CFS to IN/BB, multiply by 0.021756.

				BAINFALL BUBCEF te Time Intensity ≯cc. Late Time Fate Acc.							
Pode	PKI CCKDIT	Tuncff	Date	Time	Intensity	icc.	Lat∈	Time	Fate	Acc.	
Mo-Day	(itches)	(inches)	Mo-Day	of Day	(in/hr)	(inch∈s)	Ec-Day	of Lay	(cfs)	(inches)	
			T D E N T	OF BUCK	SI 7, 191	7 400 1771	CHETA				
			EATEST	OF B000	21 // 12	, (ccbiii	, , ,				
							8 - 7	852		1.0065	
								904	5.769	1.0347	
								926	5.563	1.0602	
								935	5.370	1.0961	
								946	5.166	1.1191	
								1011	4.402	1.1626	
								10 16	4-232	1. 1764	
								1023	4-646	1.1609	
								1029	3.549	1.1692	
								1031	3.404	1. 19 17	
								1031	3.404	10 15 17	
								1035	3.112	1.1965	
								1041	2.821	1.2029	
								1053	2.446	1.2144	
								1105	2.125	1.2248	
								1116	1.931	1.2325	
								1125	1.731	1.2365	
								1140	1.453	1.2472	
								1156	1.216	1.2549	
								1214	0.987	1.2621	
								1235	0.806	1.2690	
								1230	0.000	1.2036	
								1256	0.629	1.2744	
								1317	0.490	1.2767	
								1340	0.370	1.2823	
								1408	0.267	1.2655	
								1438	0.161	1.2880	

Conversion Factor: CFS to IN/BF, multiply by 0.021796.



61.002- 3

TOMBSTORE, ABIZONA WATERSELD W-1

LCCATION: Cochise County, Arizona; 5.6 miles W of Tombstone; Walnut Gulch, San Fedro River, Gila Biver, Colorado Fiver Fasin. Lat. 31 deg. 44 min. 45 sec. B.; Lorg. 110 deg. GS min. 10 sec. W.

AREA: 36900.00 acres 57.66 sq. miles

1.0	KTHLY	FFECIP	ITATICN	ANE RUN	CFF (NCBES)		TCRESTORE, ARIZONA WATERSBEL W-1								
		Jan	P∈h	Mar	AFI		ay	Jun	Jul	ŽΟ	g	E€Ę	Cct	Ncv	D∈c		errnal
1977	P Ç	1.45	0.0	0.0	0.0		0.0	0.46 0.0	2.37 0.001			3.73 0.160	3.21 G.002	0.0	u.0		13.79 0.168
STA AV	P Q	0.49	0.46	0.62 0.3	0.1		0.18 0.0	0.36 0.3	3.33 C.031			1.67 9.032	1.06 0.900	0.29 0.0	0.0		11.87 0.120
	ANNO	IXAS JAC		CHAFGE (S OF BU	fcr S	electe	·			INTERV		
		Discb Date		1 Hou Late V		2 F Dat∈	Vcl.	€ Be Date			Vol.		Day Vol.	2 Da Date			Cays Vol.
		g-26															
1977		9-26	0.377	9-26	1.051	9-26	0.073	5-26	0.087	9-26	0.067	9-25	0.067	9-24	0.087	5-16	0.087
1577		9-26	0.377	9-26	1.051				O.OE7			5-25	0.087	5-24	0.087	5-16	0.087

Watershed Conditions: 65% of area in desert shrubs (whitethorn, crecsotebush and tartush) with 25% cover and 2% grass cover. 35% is grassland with approximately 20% grass cover (crown spread) and 5% shrub cover.

Baps: Topographical, Geological and Vegetation - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1566, USEA bisc. Pub. 1226, pages 63.1-5, 63.1-4, and 62.1-5.

Precipitation: Records began January 155%. Bouthly totals are Thiessen weighted averages of 90 gages. STA AV values are tased on 10 yr Leginning 156%.

Punoff: Records began April 156%. STA AV values are based on 11 yr Leginning 156% (1967 not included).

Long-Term Frecipitation: National Weather Service records at Tombstone, Arizona.

1977 CAILS AIR TEMPERATORE (CEGEFES F)							TCEESTONE, ABIZONA WATERSHED W-1							
Day	Jan mar mir	F∈b max min	Mar max min	Apr max min	May max min	Jun max min	Jol wax win	Anç pax win	S∈F wax win	Oct max min	Ncv max min	fec		
1 1 2 3 4 4 5	52 36 54 34 56 39 51 33 50 42	64 37 58 43 56 33 58 35 63 36	61 41 53 30 52 30 54 28 54 31	56 38 60 36 54 32 67 34 76 41	84 58 84 55 71 60 83 55 77 52	97 70 97 68 90 67 75 62 84 58	99 70 94 66 90 85 83 63 86 65	96 84 93 61 93 67 98 68 99 67	83 65 84 63 90 68 92 68 89 68	88 58 89 58 78 64 80 58 83 63	71 45 75 42 78 50 76 51 76 50	64 34 66 36 72 41 72 44 71 41		
! ! 6 ! 7 ! 8 ! 9	48 3C 59 34 42 37 43 31 55 27	62 38 61 36 60 37 64 37 58 36	60 32 86 38 72 47 75 54 57 48	80 46 84 54 84 54 84 54 76 58	78 54 79 55 82 56 80 58 78 43	90 62 90 64 93 64 90 63 90 63	93 66 98 66 100 69 96 68 95 69	96 72 97 66 92 67 90 66 92 64	85 60 88 64 90 63 91 65 82 63	76 64 70 60 70 60 73 58 78 57	64 56 48 37 61 41 60 36 65 39	70 41 1 75 45 1 72 45 1 69 45 1 66 48 1		
 11 12 13 14	57 36 56 36 54 31 55 32 58 31	64 34 60 36 66 38 70 40 64 40	54 28 69 32 73 41 66 45 72 40	72 43 75 42 75 46 67 48 72 42	80 48 80 56 70 53 75 42 81 46	93 58 93 69 98 63 102 64 104 64	92 66 87 69 87 64 90 66 90 64	89 68 86 64 86 68 90 67 85 66	85 60 82 56 84 60 86 60 86 61	76 52 71 52 80 50 80 55 78 56	67 42 68 44 73 46 74 47 73 46	72 46 1 6E 44 1 66 39 1 6E 39 1 71 41 1		
 16 17 18 19 20	62 34 58 36 58 37 67 34 52 44	73 40 76 43 76 45 72 43 75 44	65 48 56 42 64 39 66 33 69 39	71 46 60 46 60 49 73 55 70 48	81 53 81 52 79 44 78 46 79 49	105 65 102 66 104 68 101 69 95 69	94 66 97 67 92 67 93 66 83 66	80 62 86 65 93 66 93 66 95 68	83 63 84 59 86 58 91 62 86 60	79 52 82 56 79 54 77 55 75 53	73 41 73 43 70 49 65 52 66 40	61 40 66 36 65 43 59 39 50 31		
21 22 22 23 24 25	53 44 56 46 57 40 54 36 55 36	76 44 66 52 64 36 66 42 46 34	72 38 76 46 65 48 72 41 67 48	78 43 78 53 78 61 76 58 82 56	85 49 90 54 86 56 80 63 79 55	87 69 80 60 87 56 95 62 96 66	86 68 88 66 72 64 90 64 83 67	67 68 87 66 81 66 89 66 91 63	88 60 82 61 84 61 91 60 94 60	74 48 71 46 74 49 76 50 76 48	70 42 74 42 72 42 72 40 76 42	50 26 63 40 62 46 60 42 54 40		
26 27 28 29 30	56 41 60 42 60 36 56 43 46 40 55 34	52 24 58 27 61 30	44 38 49 33 62 38 60 42 69 37 66 46	86 57 80 59 81 58 84 52 61 55	84 56 65 55 51 56 57 60 96 62 104 64	97 63 10G 64 102 68 104 72 101 74	88 64 90 67 92 69 95 68 96 69 98 68	\$0 68 86 65 89 64 93 64 95 66 \$6 68	79 68 86 62 89 62 89 62 67 61	77 53 74 54 77 51 67 58 74 52 75 47	80 48 76 48 70 48 58 40 62 36	52 43 54 48 60 46 60 46 62 42 55 25		
AV. MEAP SIA AV	55 37 45.6 59 35	64 38 51.0 61 37	63 39 51.5 67 41	75 49 62-2 75 45	£3 £4	95 65 79.8 92 62	91 67 78.7 93 67	\$1 66 78.6 85 65	87 62 74.4 86 60	77 55 65.7 77 52	70 44 57-0 67 43	64 41 52.7 55 37		

Station Averages: 14 yr beginning 1964.

1977	DA	ILY PREC	IFITATICE	(INCHES)			TCFES	ICNE, AEI	ZCNA WATE	ESEEL W-1		
1 a y	Jan	Feb	Ħar	Apr	May	Jur	Jul	Æυς	Ser	Cct	Bcv	Ç€C
1	0.2ªF	0.0	0.4	0.0	0.5	0.0	0.941	0.321	1.13E	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	6.31F	0.9 E	0.13E	0.0	0.0	0.0
3	0.0	0.3	0.0	0.0	0.0	0.01	0.331	0.0	0.0	0.0 0.0 T	0.0	0.0
ц с	0.0	5.0	0.0	0.0	0.0	0.075	0.381	0.0	0.02 0.53E	0.0 F	0.0	0.0
5	C.O E	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.532	U.U E	0.0	0.0
E	0.0 7	0.3	0.0	0.0	0.0	0.0	0.0	0.09F	6.0 F	1.10E	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.01E	0.0	1.00F	0 - 0	0.0
8	C.C6F	0.0	6.0	6.6	0.0	0.672	0.0	C.621	0.0	0.30E	0.0	0.0
č	0.0 F	0.0	0.0	0.0	C.0	0.0	0.01	0.01F	0.0	0.76E	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.1	0.51	0.0	F 0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.03F	0.42E	0.0	0.0	6.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.16F	C.U I	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.117	0.16	0.0	0.03E	C . C	0.0
14	0.0	0.0	0.0	0.0	0.0	0.6	0.0 E	0 - 04	0.0	6-0	0.0	6.0
15	0.0	0.0	0.0	0.0	C - O	0.0	C-C4E	0.71F	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.541	0.0	0.0	0.0	0.0
17	0.0	0.0	0.3	0.0	0.0	0.0	r 0.0	0.01	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.05E	0.0	0.0	0 - 0	0.0
15	0.0	0.0	0.6	0.0	0.0	1.0	0.07E	0.6 7	0.0	0.0	0.0	0.0
20	0.01	0.0	0.0	0.0	0.0	0.0	r 0.0	0.0	0.0	0.0	0.0	0.0
21	0.31F	0.3	0.0	0.0	0.0	0.03E	0.07	0.221	0.0	0.0	0.0	0.0
22	C. 50 F	0.0	0.0	0.0	0.0	0.26B	0.31E	0.C I	0.0SE	0.0	0.0	0.0
23	0.0 1	0.0	0.0	0.0	9.0	0.0	0.41F	0.67F	6.0 E	9.0	0.0	0 - 0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.03	0.0	0.0	0.0	0.0
25	0.021	0.0	0.0	0.0	0.0	0.0	0.05E	0-0	60	0.9	0.6	0.0
2€	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.25E	0.0	0.0	0.0
27	0.0	0.3	0.0	0.0	0.0	0 . L	0.5 E	0.0	0.16E	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0
29	0.18E		0.0	0-0	0 - C	0.0	0.0	0.0	0.0	0.021	0.0	0-0
30	0.21E		0.0	0.0	0.0	0.0	0.02F	0.0	0.0	0.0	0.0	0.0
31	3.0		0.0		0.0		0.351	180.0		0.0		0.0
TAL	1.43	0.0	0.0	0.0	0.0	0.46	2.37	2.59	3.73	3.21	0.0	0.0

Gaging: Thiesser weighted values from 90 cages.
Staticn Averages: 10 yr begirning 1568.

19	77	MEAN DAI	Y LISCHAR	GE (CES)			3015	SICNE, AF	IZCBA WATI	FSEFE W-1	1	
Day	Jan	P∈b	Mar	Arr	May	Jur	Jtl	Aug	Ser	€ct) CV	[ec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.05	0.0	C.C	0.0
2	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.50	23.05E	0.0	0.0	0.0
3	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	1.061	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.61E	0.0	0.0	0.0
6	G. 0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	G.0 T	3.38	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39E	0.0	0.0
٤ (0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0
10	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	5.3	0.0	0.G	0.0	0.0	0.0	0.491	0.0	0.0	0.0	0.0
12	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	C. 0	0.0	0.0	0.0	0.0	0.0	0.0	36.651	Ü.0	0.0	0-0	0.0
16	9.0	0.0	0.0	0.6	0.0	9.0	0.0	0.6	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.8	0.0	0.0	0.3	0.0	0.6	0.4	0.0	6.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	C - O
20	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	6.0	0.0	0.0	0.0
22	0.02	0.0	0.0	0.0	0.0	0.0	0.0 1	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	9.0	0.0	0.0	0.0	C.24	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.5	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	C-0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	134.91E	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	u.C	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		C. U	0.6	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
SFAS	0.0006	0.0	0.0	0.0	0.0	0.0	0.0616	1.2140	8.2542	0.1219	0.0	0.0
INCHES	0.000	0.0	0.)	0.0	0 - 0	0.0	0.001	0.024	0.160	0.002	0.0	0.0
STA AV	0.000	0.0	0.0	0.0	0.0	0.0	0.031	0.057	C.032	0.000	0.0	0.0

Station Averages: 11 yr beginning 1966 (1967 nct included). Conversion Factor: CPS to IN/CAY, multiply by 0.000645.

77 SELECTED BONOFE								
ANTICIDENT CONDITICS Date Bainfall F Mo-Day (irches) (i	s uncff Date ncbes) Bo-Day	FAT Time of Day	<pre>INFALL Intersity (in/br)</pre>	Acc. (inches)	Date ac-Day	HONCE Time of Lay	F Fate (cfs)	Acc. (inches)
			(EBPEG 1 -					
FG 000005		TC 000	105					
FG 060005 S- 1 0.0	0.0 9- 1	1732 1605	0.0 0.0182 0.0444 1.4250 1.6500	0.0 6.01	S- 1	1600 1803	0.0 0.065	0.0
		1832 1840	0-0444 1-4250	0.03 0.22		1606 1809	0.160 0.055	0.0 0.0
WATERSHED CCBLITIONS:		1844	1.6500	0.33				
5% of area in desert shr Whitethorn, creosotebush	and and	1854	1.1000	0.53		1835	0.051	0.0
arthsh) with 23% cover a % grass cover. 35% is i rassland with approximat	n elv	1858	1.3500 1.1000 3.3000 1.5000 2.2000	0.89		1840	0.062 0.051 0.147 0.472 1.654	0.0
ON grass cover (crown pread) and 5% shrnb cove		1911	1.7143	1.11				
•		15 16 1920	1.6657 1.2000	1.33 1.37		1844 1845	6.94E 14.123	0.0
		1939 1944	1.7143 1.6657 1.2000 0.0316 0.2400	1.3E 1.40		1646 1847	3.127 6.946 14.123 26.654 69.412	0.0000
		2200	0.0	1.40		1648	106.401	0.0001
		2219 2225	0.0 0.2000 0.0375 0.1000	1.42		1852 1854	106.401 137.242 167.817 229.112 253.554	0.0003
						1656 1858	315.024 339.261 350.778 366.094	0.0007
						1901 1902	350.778 366.094	0.0015
						1303	3/4.93/	0.0018
						1907 1909	335.823 285.886	0.0025
						1910 1913	367.646 335.823 285.886 269.944 243.677	0.0029
						1919	557-921	0.0038
						1920 1921	233.509 313.127	0.0035
						1922 1924	343.752 369.759	0.0045
						1926 1928	396.20E 366.668	0.0049
						1929 1931	356.20E 368.66E 363.517 339.261	0.0054 9.0057
						1932	347.758	0.0059
						1933 1535	361.975 476.952 600.000	0.0060
						1537	861.965 755.204	0.0065
						1939	EE1.552	0.0076
						1940 1941	861.263 889.896	0.0060
						1943 1946	672.679 763.264	0.0092 0.0103
						1548 1951	752.766 649.485	
							600.000 557.687	
						1955	516.330	0.0130
						1956 1557	453.762 456.156	0.0132 0.0134
						1959 2000	403.760 366.612	0.013E 0.0140
						2002	327.026 265.500	0.0143
						2007 2009	267.770 249.854	0.0150 0.0152
						20 14 20 17	233.911 232.706	0.0157
						20 22	223.975	0.0166
						20 50 20 33	215.047 204.823	0.0174
						2038 2042	192.105 156.825	0.0161

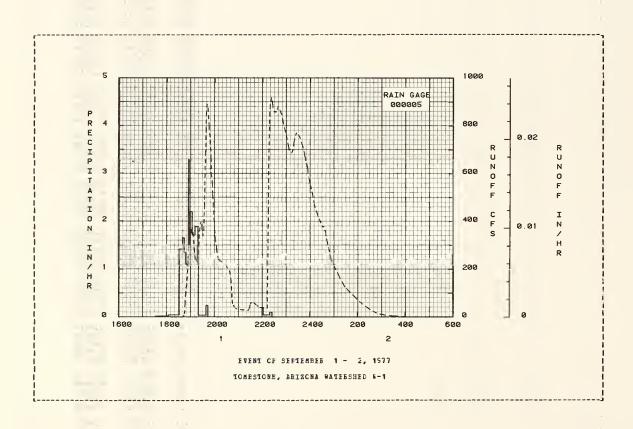
Conversion Factor: CFS to IM/HB, multiply by 0.0000265.

A T # T C T	DREE CORDIN	1686						BUNCI	F	
Cate Bo-Day	CBBT CCBDIT Eainfall (irches)	Euncff (inches)	Date Bo-Day	Time of Day	Intersity (in/hr)	Acc. (inches)	Dat∈ Bc-Day	Time cf Day	Fate (cfs)	Acc. (inches)
			EAERJ CE	SEFTEBRES	1 - 2,	1977 (CC				
							9- 1	2043 2044	111.067 61.002 71.066 55.457 46.176	0.0184
								2045	71.966 55.497	0.0185
								2051 2054	40.511 35.953 32.457 30.256 27.624	0.9167
								2057	32.457	0.0188
								2106 2125	27.824	0.0189
								2127	30.646 35.526 49.656 56.043	0.0132
								2128 2130	35.528 49.556	0.0192 0.0192
								2131	58.043 60.512	0.0192
								2145 2147	58.253 50.725 46.516 43.255	0.0196
									43.255	0.0197
								2155 2205		0.0200
								2213	35.387 235.928	0.0201
								2215	456.761	0.0263
									873.955	
								2218 2219	857.345 889.031	0.0212
								2222	902.935 918.959	0.0228
								2224	902.935	0.0237
								2226 2229	874.354 857.345	0.0245
								2234	858.500	6.0275
								2239	867.552 679.542	0.0295
								2244 2248	862.440 844.658	6.0314
								2251	£20.51£ 771.46£	0.0381
								2258 2305	711.466	0.0366
								2307	897.480	6.0396
								2313 2317	697.469 666.366 700.430 725.557	0.0414
								2319 2321	725.957 745.821	0.0433
								2324	765.206	0.0450
								2326 2330	765.206 765.857 762.064 745.821	0.0457
								2335 2338	745.821 728.551	0.0467
								2343	706.352	
								2346 2349	677.604 654.481	0.0523
								2353	626.90E	0.0543
								2355	00.000	0.0549
								2357 2400	578.627 558.334	0.0554
							9- 2	1 6	551.230 515.226	0.0584
								9	484.148	0.0583
								13 17	458.198	0.0599
								27 30	392.977 378.084	0.0618
								35	377.033	0.0631
								39 43	355.333 318.839	0.0638
								47 53	288.594	0.0645
								56	244.914 231.105	0.0656 0.0880
								101	211.228	0.0685
								110 116	163.001	0.0673
								123	139.908	0.0682

Conversion Factor: CFS to 18/85, multiply by 0.0000269.

7 SELE	CIED FUNO	EE EVENT				ICHEST	CNE, ABIZ	CNA WATER	SHEE W-1	
ANTECPDEN	T CCNDIT	ICBS		FAI	KEALL	-		RUNCI	F	
		huncff (inches)	Date Mo-Day		Intensity (in/br)	lcc. (inches)			fate (cfs)	Acc. (inches)
			EDDAN CE	PERFEREN	1 - 2,	4073 400	netrore)			
			EAENI CE	SEFTIBLE	1 - 2,	1977 (00)	MIINUELI			
							9- 2	133	116.002	0.0888
								141	102.605	0.0692
								152	65.761	0.0656
								158	74.440	0.0698
								20 €	€3.20€	6.0701
								226	37.627	0.0705
								232	31.036	0.0766
								240	22.984	0.0707
								24B	17.242	0.0708
								258	11.411	0.0709
								311	7.135	0.0709
								326	4.365	0.0710
								343	2.449	0-0710
								404	1.234	0.0710
								428	0.472	0.0710
								454	J. 12E	U-0710
								515	0.023	8.0710
								544	0.0	0.0710

Conversion Factor: CPS to IN/HF, multiply by 0.0000269.



63.001- 5

7 SELECTED BUNGE	F FVFN1			TCEESIO				
ABTECEDENT CCEDITION Date Bainfall Eo-Day (irches)	CBS Euncif Oate	FA:	INFALL Intensity	Acc.	[at∈	Time	FF Fate	Acc.
Fo-Day (irches)	(Inches) do-Da	1 Or rea	(11/11)	(Inches)	rc pel			(180162)
	E	VENT OF SEP	TEMBER 25 -	27, 1977				
FG 000008 ⊆-2€ 0.0	2.0 2-26	FG 000	3.0	0.0	5-26	1450	0.0	0.0
=-20 0.0	J.U 9-20	1329	0.0 0.4500 1.2030 0.6000	0.03	, 20	1456	0.019	0.0
		1331 1334	1.2038 0.€000	0.10		1504	0.015	0.0
ATERSHED CONTILIONS:		1330	V. 1500	3.11		1310	0.0	0.0
% of area in desert s bitethorn, creosoteby	shruts ish ard	14 18	0.0150 0.0 0.3000 0.0 0.1000	0.12		1531 1535	0.0 0.015 0.015 0.002 0.001	0.0
rhush) with 23% cover	and	1430	0.3000	0.14		1556	0.015	0.0
assland with approxim	ately	1443	0.1000	0.15		1603	0.001	0.0
<pre>\$ grass cover (crown read) and 5% shrub co</pre>						1621	0.0	0.0
		1452 145€	0.2000	6.17		1623	2.743	0.0
		1501 1504	0.1000 0.2000 0.6006 3.4800 1.0006	0.25		1626 1631	0.0 1.436 2.743 3.941 4.631	0.0 C.00iu
		1524	0.1500 0.0500 0.1200	0.33		1638	6.655 8.836 8.000 94.497	0.0000
		1533 1536	0.9500	0.37		1644	94.497 191.042	0.0001
							215.815	
		1544	0.7500 0.7500 2.2000 0.6000 0.2400	0.53		1649	238.766 251.986	0.0005
		1550	0.6000	0.67		1651	255.596	0.0007
							266.038	
		1603	0.4500 0.4500 1.6000 1.4000 1.5000	0.72		1654	261.304 266.903 266,038	0.0011
		1605 1608	1.8000 1.4000	0.81 0.86		1659	275.200	6.0017
						1702	253.15€	0.0021
		1613 1617	0.6000 2.7000 2.4000 2.4000 0.2000	0.56		1705 1706	345.251 375.455	0.0025
		1615	2.4000	1.22		1709	40 6. 124	0.0022
		1624	0.2000	1.31			452.573	
		1700 1704		1.31			569.415 623.423	
		1707	1.2000	1.38		1720	651.624	0.0057
		1710 1713	2.8000 14.0000				715.365 749.67€	
		1716		2.38			820.518	
		1718 1721	4.0000	2.68		1727	875.250 885.573	0.0082
		1723 1733		2.76			860.740 932.885	
							901.188	
		1742	0.2409 0.3000 0.6000	2.81		1733	\$67.020 1148.788	0.0107
		1750 1755	0.600v 0.1200 0.1200	2.85		1735 1737		0.0117
		1759	0.1200	2.50		1738	1712.562	
		1803	3-0000	3.10		1739	1857.854	0.0146
		1807 1812	0.1500 0.3600	3.11 3.14		1740 1742	2171.927	0.0155
		1820	0.0	3.14		1743	2467.765	0.0186
		1825 1829	0.8900 1.2000	3.21		1744 1745	2547.33E 2698.816	0.0158
		1832 1838	0.6000	3.32 3.34		1748 1749	2751.856 2780.944	0.029E
		1849	0.1091	3.3€		1751	2807.075	0.0263
		1913	0.0250	3.37		1753 1755	2851.960 2805.539	0.0309
						1756 1757	2770.221 2607.654	0.0347
						1759	2463.325	0.0381
						1800	2258.511	0.0392
						1801 1803	2212.333 2028.520	0.0402
						1805 1806	1945.533 1850.896	0.0439

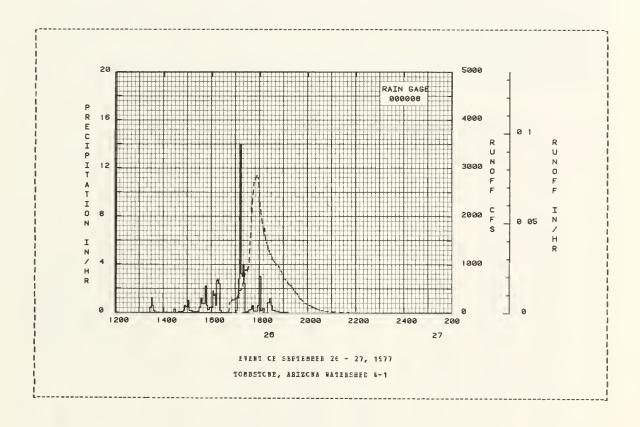
Conversion Factor: CFS to IB/BE, multiply by 0.0000269.

ANTECE	CENT CONDIT	TICES		БАЛ	FALL			EUNC	FF	
Cat∈ !o-Day	DBWI CCMDII Bainfall (inches)	Runcff (inches)	Date Mo-Day	lim∈ of Cay	Intensity (in/br)	Acc. (inches)	Eat∈ Ec-Day	Time of Lay	Fate (cfs)	Acc. (inches)
				SEFTEMBER						
							9-26	1809	1717.278	0.0471
								1810 1812	1717.278 1620.917 1757-625	0.0475
								1813	1757.625 1601.552 1490.214	0.0501
								1616 1618	1460.856 1455.107 1411.667 1321.115	0.0522 0.0535
								1819 1821	1411.667 1321.115	0.0541
								1623	1292.659	0.0565
								1624 1826	1251.603 1220.058	0.0571
								1628	1201.534	0.0593
								1829 1831	1161.137 1147.841	0.0598
									1117.757	
								1834 1836	1061.676 1065.246	0.0E23 0.0E33
									1039.955 1014.106	
								1841	965.263	
								1846 1849	965.742 528.447	0.0878
								1652	869.269	0.0703
									834.637 634.060	
								1900	732.037	0.0732
								1905	713.126 676.146	0.0747
					•			1509	636.027	0.0759
								1911 1912	620.641 599.324	0.0765
								1914 1916	575.329 557.687 566.144	0.0773
								1916	566.144	0.0783
								1919 1920	577.308 563.532 535.271 501.667 462.954	0.0785
								1921	535.271	0.0791
								1923 1925	462.954	0.0800
								1926	459.944	0.0802
								1928 1931	436.426 419.648	0.0806 0.0811
								1933 1936	396.750 36 6.663	0.0815
								1940 1942	307.47€	0.0626
								1549	235.823 207.476 267.669 237.547	0.0837
								1,555		
								1957 2003	163.693 158.097 145.937	0.0845
								2007 2010	145.937 131.992	0.0852 0.0854
								2014	119.069	0.9856
								20 15 20 18	107.429 97.689	0.0856 0.0858
								2020	£8.817	0.0859
								2023 2026	77.901 68.796	0.0860 0.0861
								2029	58.814	0.0862
								2034 2038	40.600 42.202	0.0663 0.0864
								20 44 20 52	14.686 28.660	0.0865 0.0866
								2059	23.413	0.0867
								2109 2120	16.166 13.636	0.0867
								2130	9.719	0.0869
								2137	7.396	0.0869
								2144 2156	5.700 3.738	0.0869 0.0870
								2209 2220	2.233 1.412	0.0870 0.0870
								2232	0.778	0.0870

Conversion Factor: CPS to IF/8F, multiply by 0.0000269.

1977 S	ELECIED EUDO	DEF EVENT		TOPESTONE, ARIZONA WATERSHEE W-1								
ANTECE Eate Bo-Day	DENT CCEDIT Fainfall (inches)	FICES Enncff (inches)	FAIBPALL Date Time Intersity Bo-Day of Lay (in/hr)			lcc. (inches)	Tate Mc-Tay	BUBCE Time of Day	F Fate (cfs)	Acc. (inches)		
			EVERT CE	VERT CE SEFTEBEEF 2		1977 CC	TIBUET)	•				
							9-26	2243 2258 2308 2331	0.460 0.154 9.051 0.0	0.0670 0.0670 0.0670 0.0870		

Conversion Factor: CFS to IN/BE, multiply by 0.0000269.



63.001- 8

TCHESTONE, PEIZONA WATERSFEE W-2

LCCATION: Cochise County, Arizona; 2-3/4 miles NW of Tombstone, Walnut Gulch, San Fedro River, Gila Fiver, Colorado Liver Basin. Lat. 31 deg. 44 min. 05 sec. N.; Lorg. 110 deg. U5 min. 55 sec. W.

ABEA: 28100.00 acres 43.90 sg. wiles

ŧc	IBIAC	YFFECIF	ITATICN	AND RONG	FE (IN	EES)	 .	:	ICHESICNI	. AEIZCN	VATEES	BEC W-2		
		Jan	P∈b	čar	Apr	fay	Jun	Jul	ħτg	Sep	0ct	NC V	D€C	Arnual
1977	P Ç	1.43	0.0	0.0	0.0	0.0	0.55 0.001	2.25 0.001	2.7E 0.043	3.53 0.150	3.33 0.019	0.0	0.0	13.65
STA AV	P C	0.49	0.48	0.60	9.19 9.0	0.18 0.0	0.37 0.001	3.34 0.054	2.85 0.068	1.71 0.045	1.09 0.003	0.31 0.000	0.36 0.000	11.97 0.170
	ANN	DAL PAKI	BOB DIS	CHAFGE (i	n/hr)	AND MAXIMUM	VOLUME	S OF EUR	SCFF (inc	thest FCR	SELECTE	TIEF	THEFTALS	
		Baxi Disch	arge			2 Hours	6 Bc	vclus∈ furs	for Select	ted Time	Int∈rva Day	1 2 Da	 ys	E Days
1977			arge Fate	1 Hcui fate Vo	1. Da		6 Bc Dat∈	Vcluse furs	for Selection 12 hours	cted Time 1 Late	Interva Day Vol.	1 2 Da Late	ys Vcl. Da	t∈ Vol.
1977		Disch Date	arge Fate	Cate Vo	1. Da	2 Hours	6 Bc Date 9+ 1	Vcluse furs Vcl. I	for Selection 12 hours tate Volume	cted Time 1 Late	Interva Day Vol.	1 2 Da Late	ys Vcl. Da	t∈ Vol.

Watershed Conditions: 55% of area in cak woodland, and desert shruts (whitethorn, crecsctebust, tartush and mortonia), with a 25% crown spread cover. 45% of area supports grass (black grama, curly mesguite, tobosa, thue grame and sideoats grama), with a basal area of 2.5%, and a shrut cover of approximately 6% crown spread. Maps: Topographical, Geological and Vegetation - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Fut. 1226, pages 63.1-3, 63.1-4, and 63.1-5.

Precipitation: Fecords began January 1954. Monthly totals are Thiessen weighted averages from 69 gages. STA AV values are based on 10 yr teginning 1566.

Eunoff: Records began July 1555. STA AV values are based on 11 yr teginning 1566 [1967 not included).

Long-Term Precipitation: National Weather Service records at Tombstone, Arizona.

1977	E A	ILY PEBCI	PITATICN	(INCHES)			TCFEST	CWE, ABI2	CBA WATE	SEEL W-2		
Lay	Jan	F∈b	äar	Apr	eay	Jur	Jtl	Aug	Sep	Cct	Bcv	Lec
1 2 3 4 5	0.24F 3.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.3 0.0 0.0	0.0 2.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 T 0.09F	0.04E 0.01E 0.2EE 0.40E 0.07E	0.34F 0.0 T 0.0 0.0	1.11E 0.11E 0.0 0.02 0.62E	0.0 0.0 0.0 0.0 1	0.0 0.0 0.0 0.0	9.0 0.0 0.0 0.0
E 7 8 9 10	0.0 T 0.0 0.06F 0.0 T	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.02F 0.09F 0.0	0.0 0.0 0.0 0.01 0.01	0.06E 0.01E 0.03E 0.01E 0.0	0.0 E 0.0 0.0 0.0	1.17 1.01E 0.31E 0.76E 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
11 12 13 1 14 1 15	0.0 0.0 0.0 3.9	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.5 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.05E 0.10E 0.01E 0.05E	0.01 0.18 0.22 0.04 0.77E	0.45 0.0 T 0.0 0.0 0.0	0.0 0.0 0.03B 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
16 17 18 1 19 1 20	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 T 0.01F 0.34F 0.0 T	0.61E 0.01 0.04E 0.0 T 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.32F 0.42F 0.0 T 0.0 0.02F	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.02 E 0.33 E 0.0 0.0	0.08 0.26 0.3EF 0.0 T 0.02F	0.23E 0.0 T 0.07E 0.04	0.0 0.11E 0.0 E 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 1 27 1 28 1 29 1 30	0.0 0.0 0.0 0.15F 0.20F	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 F 0.04F 0.0 0.02F 0.39F	0.0 0.0 0.0 0.0 0.0	0.93E 0.18N 0.0 0.0	0.0 0.0 0.03E 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
TOTAL STA AV	1.43 0.49	0.0 0.48	0.0 0.60	0.0 0.19	0.0 0.16	0.55 0.37	2.25 3.34	2.7£ 2.85	3.53 1.71	3.33 1.09	0.0 0.31	0.0 0.36

Air Temperature: See table for Watershed 63.001. Gaging: Thiesser weighted values from 69 gages. Station Averages: 10 yr beginning 1968.

19	77	MEAN DAIL	LY EISCHAI	FGE (CFS)			ICFES	ICRE, AFI	ZCNA WATE	FSHFE %-2		
Day	Jan	Feb	Bar	A F I	May	Jue	Jnl	Aug	Sep	Cct	BCA	£∈c
1 2	0.0	0.0 0.0	C.3	0.0	0.0	0.0	0.0	U.0515 2.592E	84.757 S.617	0.062	0.0	0.014
	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.035	0.062	0.013	0.014
4	0.0	C-0	u.0	0.0	0.0	0.0	0.555E		0.017		0.012	0.014
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.733	0.035	0.008	0.014
€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.053	0.157	18.283	0.004	0.014
7	0.3	0.0	0.0	0.0	0.0	0.0	0.3	J.001	0.058	2.723E		0.019
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	0.165	0.062	0.014
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.945	0.218	0.029	0.019
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.050	0.011	0.014
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.057	0.015	0.014
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.024	0.038	0.014	0.014
13	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.274E	0.018	0.033	0.014	0.014
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.031	0.017	0.014
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.586F	0.0 1	0.029	0.016	0.014
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.112E	0.0	0.029	0.017	0.014
17	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.006	0.0	0.029	0.023	0.014
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.029	0.023	0.014
19	0.0	0.5	0.0	0.0	0.0	0.0	0.006	0.0 1	0.0	0.021	0.019	0.014
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015	0.022	0.014
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	0.013	0.014
22	0.465F		0.0	0.0	0.0	1.871	0.00EE	0.0	0.0	0.016	0.014	0.022
23	0.0	0.0	0.0	0.0	0.0	0.0	0.06EE	0.0	0.0	0.015	0.014	0.071
24	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.013	0.014	0.090
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.637	0.014	0.081
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.044	0.001	0.014	0.081
27	0.0	0.0	0_0	0.0	0.0	0.0	0.0	0.0	0.154E	0.0	0.014	0.078
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.095	0.0	0.014	0.047
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.058	0.0	0.014	0.050
30	0.0		0.3	0.0	0.0	0.0	0.0	0.0	0.062	0.0	0.014	0.042
31	0.0		0.0		0.0	-	0.875	0.0		0.0		0.039
BEAR	0.0156		0.0	0.0	0.0	0.0557	0.0502	1.6477	5.8995	0.7142		0.0455
INCHES	0.000	0.0	0.0	0.0	0.0		0.001	0.043	0.150	0.019	0.000	0.001
SIA AV	0.000	0.0	0.9	0.3	0.0	0.001	0.054	0.068	0.045	0.003	0.000	0.000

Station Averages: 11 yr beginning 1986 [1967 not included]. Conversion Factor: CPS to IN/EAT, multiply by 0.000647.

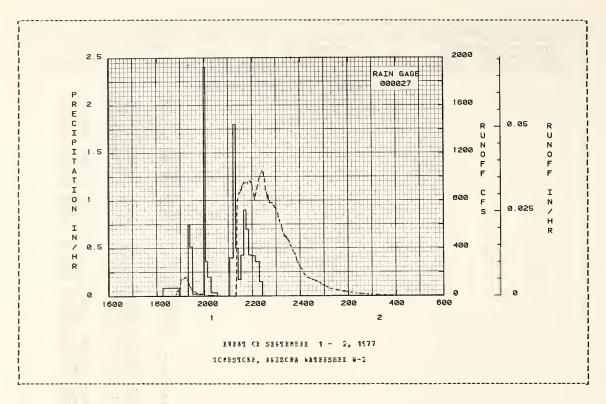
7 SEL	ECTED LONG	OFF EVENT				ICHESICN	E, ARIZC	NA WATERSE	FE 6-2	
ARTECEDE	T CCBOI				BFALL			FORCE		
		Enncff			Intersity (in/hr)			Time of Day		Acc. (inches)
	(110865)	(100065)		OL Fak	(10/61)	1100068)	ac-ray	or ray	(CLE)	(100065)
			EVF	NI CE SEFI	EBEEB 1 -	2, 1977				
	000027			FG 0000	127					
9-1	0.0	0.0	9-1		0.0	0.0	9- 1	1845	1.144	0.0
				1858	0.0878	0.0€		1847	2.745	0.0
				1919	0.0	0.08		1848	14.621	0.0000
				1923	0.7500	0.11		1849	26.005	0.0000
ATEESEEG C	T F F T T T C W C			1930	0.5143	0.17		1851	40.589	0.0001
k wcodland				1958	0.0214	0.18		1853	47.170	0.0601
hitethorn,	creosotei	oush,		2002	2.4000	0.34		1856	52.214	0.0002
	tethorn, creosotebush, cnsh, and mcrtcnia) with			2007	0.3600	0.37		1858	72.330	0.0003
crown sprea	own spread of 25% cover,			2016	0.2000	0.40		1859	108.431	0.0003
rown spread of 25% cover, nry 55% of the area. The aining 45% snrports grass				2033	0.0353	0.41		1900	113.840	0-0004
lack grama,	, corly me	esgnite,		2103	0.0	0.41		1901	132.985	0.0004
tosa, tine				2112	0.4006	0.47		1903	143.075	0.0006
deoats grau				2116	1.8000	0.59		1507	148.137	0.0009
sal area of	2.5% CO	eI,		2118	1.8000	0.85		1911	158.518	0.0013
d a shrnb o proximatel				2124	0.5000	0.70		1913	157.484	0.0015
progradict	,	. Spreeds		2131	0.1714	0.72		1915	151,114	0.0017
				2138	0.4286	0.77		1917	138.585	0.0018
				2144	0.5000	0.88		1919	112.070	0.0020
				2150	0.7000	0.53		1920	110.514	0.0021
				2157	0.4286	0.98		1922	E7.329	0.0022
				2207	0.4200	1.05		1924	74.50€	0.0023
				2217	0.3800	1. 11		1928	87.195	0.0024
				2225	0.1500	1.13		1927	57.771	0.0024
								1930	52.046	0.0025
								1933	42.013	0.0026
								1936	35.750	0.0028
								1938	25.829	0.0027
								1941	24.808	0.0027
								1943	20.053	0.0028
								1947	16.505	0.0028

Conversion Factor: CPS to IN/HE, multiply by 0.0000353.

		OFF EVEST				TCHESTOR				
ABTECED	EBI CCNDI	TICES	Date	FAIR	FALI Intersity	l.c.c	Cate	FUNC	FE	Acc
Ho-Day	(irches)	(inches)	No-Day	of Lay	(in/br)	(inches)	Mc-Day	of Lay	FI Fate (cfs)	(inches)
			EARKI CE	SIFTEBEEF	1 - 2,	1977 CC1	IINUEC)			
							9- 1	1949	14.248 10.534	0.0028
								1959		
								2000	7.522	0.0029
								2008	338.3	0.0029
								2012		
								2014	5.064	0.0029
								2017	5.064 5.489 5.489 5.460	0.0030
								2022	5.450	0.00 EG
								20 25	4.524	0.0020
								2028	3.975	0.0030
								2030	3.478	0.0030
								2040	3.975 3.476 3.017 1.586	0.0030
								2047	1.484 1.144 0.875 0.472 0.218	0.0030
								2054	0.875	0.0030
								2102	0.472	0.0030
								2112	0.152 0.113	0.0030
								2118	0.769	0.0030
								2119	0.113 0.765 66.366 220.308	0.0030
								2122	792.628 820.135 681.815 889.210 892.241	0.0037
								2124	620.1±5	0.0047
								2129	889.210	0.0072
								2131	880.258	0.00 62
								2133	893.103	0.0053
								2134 2135	932.358	0-0103
								2139	880.258 893.103 922.085 932.358 954.012	0.0128
								2141	CAS 31A	0.0133
								2144	954.012	0.0154
								2148 2149	953-142	0.0176
								2153	954.012 953.142 940.120 966.026	0.0204
								2157	947.918	
								2159	933.218 890.522	0.0238
								2 20 0	£90.522	0.0243
								22 04 22 0 6	654.856 808.741	0.0264
								2208 2210	858.250 884.587 911.843	0.0283
								2212	911-843	0.0304
								2214 2215	933.218 961.006	0.0315
								2219 2220	1006.71E 1030.2E0	0.0343
								2222	1020.280	
								2224	1054.527	0.0374
								2225	1033.458	0.0380
								2228	1036.325	3250.0
								2229 223 1	1008.716 984.824	0.0404 0.0418
								2233	885.381	0.0427
								2236	889.210	0.0442
								2238	818.502	0.0452
								2240 2241	845.042 607.123	0.0462
								2243	777.501	0.0476
								2244	797.443	0.0481
								2245	782.280	0.0485
								2251	779.085	0.0513
								2253 2254	757.083 760.986	0.0522 0.0527
								2255	744.675	0.0527
										0.0535
								2256 2257	756.304 740.062	0.0540
								2300	727.824 692.571	0.0553
								2304		

Conversion Factor: CES to IH/BB, multiply by 0.0000353.

SELE	CIEC EUNO	EE EVENT						NA WATEFSHEC 5-2		
				F 3 7				ERRE	2.2	
Tate B	ainfall isches)	Buncff [inches]	Date Bo-Day	of tay	[in/br)	inch	. Late	of Lay	(cfs)	(inches)
							(CCBIINUEL)			
			TATES OF	SEFIEDLED	1 - 2,	1,,,,		2308	640.475	0.0565
								2309	620.876 593.510	0.0569
								2316	543.533	0.0613
								2319	524.531	0.0622
								2321	454.565	
								2325	505.002 469.534	0.0640
								2326	497.997 476.763	
								2329 2334	461.162	0.0665
								2335 2338	431.607	
								2342	378.998	
								2344		
								2345 2348		0.0651
								2350	328.757	0.0702
									255.376	
								2354 2355	273.165	0.0714
								2357		0.0713
							9- 2	2	235.835	0.0721
									215.926	
								9 13	166.425	0.0730
								18	155.556	0.0735
								26	144.258	
								29 44	141.566 118.973	
								4.6	110.371	0.0762
								53 56	102.444 53.416	0.0767
								102	86.665	0.0771
								105 109	78.986 71.159	0.0772
								114	€2.746	0.0776
								120	57.057	0.0776
								131 138	50.715 46.232	0.0781
								145	40.142	0.0785
								157 207	33.219 29.587	
								210	26.562	0.0790
								218	23.334 21.332	0.0791
								221 226	21.332 19.176	0.0752
								240	15.365	0.0794
								246	14.321	0.0794
								251 258	13.020 11.865	0.0795
								30 1 3 1 4	10.966 5.646	0.0755
								320		0.6756
								333	7.522 6.106	0.0757
								335 343	5.371 4.676	0.0797
								356	4.155	0.0758
								404	3.710	0.0756
								411 415	3.254 2.850	0.0758
								420 433	2.552 2.254	0.0758
								442 452	1.942 1.671	0.0756
								501 511	1.335	0.0795
								525	0.988	0.0795
								537	0.775	0.0799
								546	0.624	0.0799



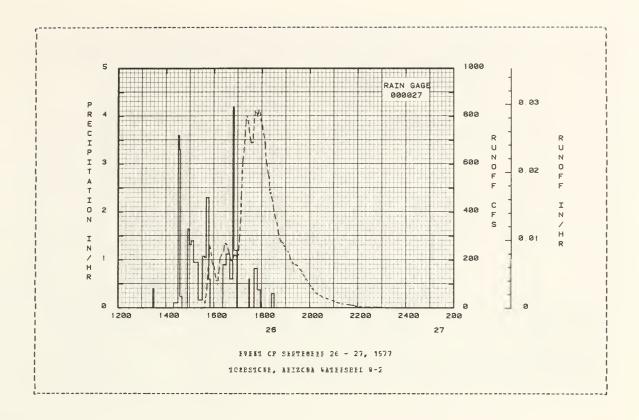
77 SELECTED RUNOFF EVENT				TCHESTCE	E, ARIZC	NA WATERSI	BEC %-2	
ANTECEDENT CONDITIONS			NEALL			FUNCI	E	
Date Painfall Funcff Bc-Day (inches) (inches)		Time	Intensity			Time	Fate	Acc. (inches)
	EVE	NT CE SEPS	EMBER 26 -	27. 1977				
EG 000027		BG 0000						
9-26 0.04 0.0	9-26	1327	0.0	0.0	9-26	1526	0.0	0.0
3 20 0.04 0.0	3 20	1330	0.4000	6.02	, 20	1528	0.014	0.0
		1415	0.0	0.02		1529	0.064	0.0
		1430	0.1091	0.04		1531	0.132	0.0
		1433	3.6000	0.22		1532	0.465	0.0
WATERSHED CONTITIONS:		17-5	3.2000					
ak woodland and desert shruks		1435	3.3000	0.33		1535	0.857	0.0
Whitethern, crecsotebush,		1440	0.2400	0.35		1536	1.354	0.0
artush, and mettenia) with		1454	0.2400	0.35		1537	5.177	0.0
crewn spread of 25% cover,		1456	1.6500	0.46		1538	27.932	0.0000
ccury 55% of the area. The		1503	1.3200	0.57		1539	30.80€	0.0000
emaining 45% supports grass		1503	1.3200	0.07		1333	30.000	0.0000
black grama, curly mesquite,		1509	1.4000	0.71		1540	44-241	0.0061
		1521	0.9500	0.50		1542	56.854	0.0001
obosa, blue grama, and idecats grama) with a		1532	0.1636	0.53		1543	80.445	0.0002
		1537	1.0600	1.02		1544	102.444	0.0002
asal area of 2.5% cover, nd a shruh cover of		1541	1.0500	1.09		1545	136.867	0.0003
		1541	1.0500	1.05		1545	136.067	0.0003
ppicximately 6% crown spread.		1547	2.3000	1.32		1546	165.365	0.0004
		1547	0.6000	1.36		1547	182.156	0.0005
							223.360	0.0005
		1623	0.0	1.36		1548	255.051	0.0005
		1631	0.9000	1.48		1550		
		1640	1. 1333	1.65		1552	247.500	0.0012
		1647	0.6000	1.72		1553	229.156	0.0013
1 1		1650	4.2000	1.93		1554	216.501	0.0014
		1658	1. 2000	2.09		1556	167.507	0.0017
		1728	0.0	2.05		1559	177.245	0.0020
		1730	0.6000	2.11		1601	174.138	0.0022
		11.50	0.000					
		1741	0.0	2.11		1603	143.6€€	0.0024
		1749	0.6250	2.22		1605	126.655	
		1757	0.2750	2.27		1606	115.755	
		1825	0.3750	2.27		1607	113.37€	0.0027
		1831	0.3000	2.30		1609	59.042	0.0028
		1631	0.3000	2.30		1000	33.042	0.0020

Conversion Factor: CFS to IN/PB, multiply by 0.0000353.

35555	TREE CON	T# 76 BS		E 3 71	FAII			FUNCE	 F	
fate.	Fainfall	Runoff	Date	Tise	Intensity	¿cc.	₽at∈	lise	Fate	Acc.
Eo-Day	(ircbes)	ITICES Bunoff (inches)	Mo-Day	cf Lay	(in/hr)	(inches)	Mc-Day	of Lay	(cfs)	(incb∈s)
				SEFTFMEER						
			LVENT OF	SEFTIMEED	20 21,	1377 (00)		4640	101.217	0.0000
							9-26	16 11	114.430	0.0029
									172.084	
									205.815	
								1617	214.645	0.0035
								1620	223.744	0.0039
									236.628 259.929	
									269.716	
								1629	265.716	0.0052
									267.558	
								1635	251.602	0.0061
								1638	231.108	0.0066
									215.773	
								1644	158.877	0.0073
									195.163 196.273	
								1649	202.518	0.0079
									218.411 219.926	
									215.773	
									218.411	
									223.744 260.772	
								1704	281.042	0.0059
								1705	308.281	0.0100
									376.883	
									457.710 485.536	
									605.051	
									656.135 743.137	0.0130
								1720	787.037	0.0152
									799.855 796.638	
								1725	783.054	0.0175
								1727	746.225	6.0184
									715.714 689.613	0.0197
								1735	689.613	0.0217
								1737	653.312	0.0226
								1738 1740	727.824 775.918	0.0230
								1743	823.409	0.0253
									E16.055	
								1749 1751	800.662 810.365	0.0281
								1752	828.333	0.0296
								1755 1756	816.872 805.503	0.0310
								1757	781.467	0.0320
								1759	779.085	0.0329
								1801 1832	760.205 744.679	0.0338
								1806	708.954	0.0360
								1807	690.352	0.0364
								1808 1811	663.329 611.902	0.0368
								1813	591.487	0.0386
								1815	563.601	0.0353
								1818 1819	539.700	0.0403
								1821	456.177	0.0411
								1822 1823	474.643	0.0414
								1825	456.558	0.0423
								1827	445.113	0.0428
								1829 1830	421.645	0.0433
								1832	350.219	0.0440

Conversion Factor: CPS to IB/BF, multiply by 0.0000353.

SEL						ICHESIC				
ANTECEDE	RT CCRCIT	ICES	Date	FAII	FALL	lee	Fate	EUNCI	F	100
Ho-Day	(irches)	(inches)	Bo-Day	of Cay	(in/br)	Acc. (inches)	Eo-Cay	cf Day	(cfs)	(inches)
						1977 (CC)				
							9-2€	1835	371.625	0-0447
								1837 1839	357.655	0-0447
								1643	341.031 304.560	0.0453
								1845	289.052	0.0466
								1848	275.344	0.0471
								1852 1854	273.604 266.427	0.0478 0.9461
								1855	259.529	0.0453
								1857	254.914	0.0486
								1859 1900	246.664	0.0469
								1305	236.231	0.0497
								1907 1910	233.464 216.901	
								19 12	201.436	
								1917	191.129	0.0512
								1918 1924	164.641 179.692	
								1930	175.862	
								1936	160.076	
								1941 1944	150.800 138.867	
								1947 1950	120.677	0.0541
								1955 2000	114.430 57.853	0.0550
								2004 2006	69.554 62.133	0.0552
								20 10	73.711	0.0555
								20 15	62.746 56.701	0.0557
								20 20 20 26	56.701	0.0559 0.0561
								2033	45.306	0.0563
								2041		0.0565
								2047 2058	36.714 30.072	0.0566
								2103	26.675	0.0569
								2108 2115	22.822 19.631	0.0570 0.0571
								2121	17.510	0.0572
								2124	16.184	0.0572
								2134 2141	14.246 13.302	0.0573 0.0573
								2193	12.064	0.0573
								2149	11.262	0.0574
								2152 2154	10.113 8.917	0.0574
								2155 2200	7.138	0.0574 0.0574 0.0574
								2204 2210	4.070	0.0574 0.0575
								2218 2231	4.375 4.170	0.0575 0.0575
								2242	3.854	0.0575
								2249	3.367	0.0576
								2253 2300	2.933 2.630	0.0576 0.0576
								2306 2315	2.290 1.959	0.0576 0.0576
								2329 2336	1.360 1.182	0.0576
								2345 2350	1.023 0.908	0.0576 0.0576
								2356	0.821	0.0576
								2400	0.765	0.0576
							9-27	72 37	0.615 0.520	0.0576 0.0576
								44 110	0.465 0.370	0.0576
								120 130	0.324 0.293	0.0577 0.0577
								153	0.253	0.0577



63.002- 8

TOMESTONE, ASIZONA WATERSHEE W-3

LOCATION: Cochise County; 1.3 miles north of Tombstone; tritutary of Walnut Gulch; Sam Fedro River, Gila River, Colorado River Fasin. Iat. 31 deg. 43 min. 57 sec. N.; Long. 110 deg. 03 min. 25 sec. W.

BC.	NIBI	Y PRECIP	ITATICN	ANE FOR	OFF (INCE	٤)			ICFESIONE	, ABIZCH	A WATERS	BEC W-3			
		Jan	F€b	Mar	Apr	May	ממנ	J n 1	≱tg	S∈F	Oct	Nc∀	Dec	A	nnual
1977	P Q	1.44	0.0	0.0	0.0	0.0	0.76 0.012	2.50 0.010	2.72	4.27 0.464	2.91 0.001	0.0	0.0		4.70 0.555
SIA AV	P C	0.54	0.37	0.46	0.14	0.11	0.32 0.001	3.33 0.037	2.80 0.093	1.55 0.054	0.74 9.001	0.38	0.61		1.36 0.184
	ANN	DAL BAXI		CHAEGE ((in/hr) AN				NCFF (inc				101667	115	
		Cisch Dat∈	arge	1 Hou Cat∈ V		Bonrs Vol.	€ 80	curs	12 ∃ours Cat∈ Vcl	1	Day Vol.	2 Ca	vcl.	₽.C Date	
1977		g-26	0.257	9-26 0	1.194 g-2	0.267	g-26	0.367	9-26 0.3	67 9-25	0.367	9-24	0.367	9-18	0.367
						EAXIEUE:	S FCF FI	FICE OF	FECCED						
		8-16 1956	0.580	8-10 0 1971	.275 8-10 197	0.312	9-26 1977	0.367	9-26 0.3 1977	67 9-25 1977	0.367	9-24 1977	0.367	8-10 1971	3.426

Watershed Conditions: Vegetative cover; Desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread approximately 30% and grasses with lasal area of approximately 0.6% cover occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with basal area of 2.6% cover and shrub cover of 2% county the remaining 45% of the area.

Maps: Topographical, Geological and Vegetation - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1566, USIA Misc. Pub. 1226, pages 63.1-3, 63.1-4, 63.1-5.

Precipitation: Fecords began 1955. Monthly totals are Thiesser weighted averages of 12 gages. STA AV values are based on 23 yr beginning 1955.

Ennoff: Fecords began 1955. STA AV values are based on 20 yr beginning 1958.

Long-Term Precipitation: National Weather Service Records at Toubstone, Arizona.

1977	CA	ILY PREC	IFITATION	(INCHES)			ICEESI	CRE, ARIZ	CNA WATER	SBEC 6-3		
Cay	Jan	₽eb	Mar	Apr	May	Jun	Jul	à ng	Sep	Cct	Bc∀	Ç∈c
1	0.23F	0-7	0.3	0.0	0.0	0.0	0-01	0.48E	1-27	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.09	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0 - 0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.113	0-46E	0.0	0.05	0.0	0.0	0-0
5	0.0	0 - 0	0.0	0.0	0.0	0.0	0.01	0.0	0.64	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	1.01	0.0	0.0
7	0.0	9.0	0.0	0.0	0.0	3.01	0.3	0.01	6.0	0.50	0.0	0.0
8	0.05E	0.0	0.0	0.0	0.0	0.07	0.3	0.10	0.0	0.26	0.0	0.0
S	0.0 I	0.0	0.0	0.0	0.0	0.0	0.03	0.0	Ú.O	0.70	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.9	3.0	0.0	0.0	0.0 1	5.30	0.0	0.0	0.0
12	0.0	0.0	J-0	0_0	0.0	0.0	0.J I	0.12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.01	0.0	0.03	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.04	0.0	0.0	0.0	0.0
15	C. 0	0.0	3.0	0.0	0.0	0.0	0.05E	0.76	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0€	0.0	0.0	0.0	0.0
18	0.0	0.2	0.0	0.0	0.0	0.0	0.03E	0.01E	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.01	0.0	0.0	0.0	0.0
20	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	3.25 F	0.0	0.0	0.0	0.0	0.0 1	0.11	0.10	0.0	0.0	0.0	0.0
22	0.50 E	0.0	0.0	0.0	0.0	0.57E	0.26	0.0	0.07E	0.0	0.0	0.0
23	0.0	0.)	0.0	0.0	0.0	0.0	0.36	0.04E	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0 • G G	0.0	0.0	0.0	0.0
25	0.02	0.0	0.0	0.0	0-0	0.0	0.09	0.0	0-0	0 - 0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.87E	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08N	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0 - 0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
29	V.15		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-01	0.0	0.0
30	0.23		0.0	0.0	0.0	0.0	0.01F	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.65E	0.23		0.0		0.0
ICTAI	1.44	0.0	0.0	0.0	0.0	0.76	2.50	2.72	4.37	2.91	0.0	0.0
STA AV	0.54	0.37	0.46	0.14	0.11	0.32	3.33	2.80	1.55	0.74	0.38	0.61

Air Temperature: See table for Watershed 63.001. Gaging: Thiesser weighted values from 13 rain gages. Station Averages: 23 yr beginning 1955.

63.003- 1

197	77	MEAN DAI	I Y LISCHA	GE (CFS)			TCFFST	CBF, AFI	ZCBA WATE	ESBEC %-3		
Day	Jan	₽∈b	Bar	Apr	Bay	Juc	Jul	Aug	Ser	Cct	Bc⊽	Lec
1	0.0	0.0	0.0	0.0	0.0	0.0	U.0	0.441F	6.490E	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.113F	0.35EE	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.272E	0.0	0.0	0.0	0 . û	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.172E	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.057E	0.0	0.0
7	3.0	0.0	0.3	0.0	0.0	3.0	0.0	0.0	0.0	0.0	C - 0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ç	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010E	0.0	0.0
10	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.304F	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.3	0.0	0.0	0.0	0.0	5.770E	0.0	0.0	0.0	0.0
16	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0191	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.9	0.3	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.004	0.0	0.0	0.0	0.0	1.109E	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.026F	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.213E	0.0	0.0	0.0
27	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0	0.0	0.0	0.0	0.643F	0.0	J. 0	0.0	3.0	0.0
BEAR	0.0001	0.0	0.0	0.0	G.0	0.0370	0.0304	0.2047	1.4424	0.0022	0.0	0.0
INCHES	0.000	0.0	0.3	0.0	0.0	0-012	0.010	0.068	0.464	0.001		0.0
SIA AV	0.000	0.0	0.0	0.0	0.0	0.001	0.037	0.053	0.054	0.001	0.0	0.0
	0.000											

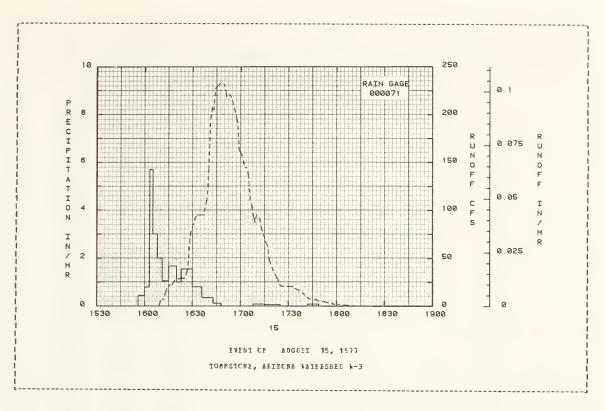
Ctation Averages: 20 yr beginning 1956. Conversion Factor: CPS to IN/IAY, multiply ty 0.010722.

7 SELECT	ED BORG	DEF EVENT				ICEESICE	e, AFIZC	BA WATERS	EL 0-3	
ABTECEDEBT				FA	IBFALL			FUNCI		
Cat∈ Fai Bo-Day (ir					Intensity (in/br)				∄at∈ (cfs)	Acc. (inches)
			F	VENI CP	AUGUSI 15	. 1977				
FG 30	0071			5G 000						
	0.06	0.0	8-15	1556	0.0	0.0	8-15	1600	0.0	0.0
			0	1600	0.4500	0.03		1502	0.107	0.0
				1603	0.6030	0.07		1604	0.166	0.0
				1605	5.6988	0.26		1605	0.254	0.0
				1608	3.0000	0.41		1609	0.274	0.0000
ATERSEED CCBL	IIICES:				30000			1003	002.4	3.0000
getative Cove				1611	2.0000	0.51		16 10	€.010	0.0000
rols (whiteth				1615	1.0500	0.56		1611	6.584	0.0001
sb, and tarbn				1620	1.6800	0.72		1612	7.710	0.0001
cicum spread				1623	1.0000	0.77		1614	18.449	E000.0
and grasses				1630	1.5429	0.55		1615	20.672	0.0005
ea cf approxi										
ver, occupy 5				1636	0.6000	1.03		1616	22.132	0.0G0E
asses black				1643	0.3429	1.07		1617	22.211	0.0008
squite, tobos				1648	0.1200	1.08		1619	26.930	0.0012
sal area of 2				1708	0.0	1.08		1623	29.156	0.0020
d shrub cover				1715	0.0857	1.09		1625	25.0€7	0-0024
e remaining 4										
ea.				1725	0.0600	1.10		1626	32.928	0.0027
				1742	0.0	1.10		1627	39.271	0.0025
				1749	0.0857	1.11		1628	62.157	0.0033
								1629	78.422	0.0036
								1630	62.463	0.0044
								1632	93.446	0.0057
								1633	95.055	0.0064
								1637	95.055	0.0093
								1639	112.955	0.0106
								1640	142.546	0.0118
								1641	195.640	0.0130
								1642	207.395	0.0145
								1643	204.630	0.0161
								1644	227.370	0.0177
								1647	232.375	0.0228

Conversion Factor: CFS to IM/BF, Bultiply by 0.000447.

	SELECTED RON								NA WATERS		
ANTEC	ECENT CONDI	TICNS			FAIN	FALL			BUNCI	E	
Date	Bainfall	Buncff	Date	1	ime	Intensity	Acc.	Eat€	lime	Fate	Acc.
	FCBN1 CCNDI Bainfall (irches)	(inches)			Lay	110\pt)	(100068)	y	or ray	(CIS)	(1mca∈s)
						15, 197					
						•	,	-	46.00		
								€ -1 5	1649 1650	231-763	0.0263
									1851	218.358	0-0297
									16.53	220.982	0.0329
									1654	231.763 229.423 216.356 220.962 217.826	0.0348
									1658		0.0377
									1658		0.0407
									1659	162.655	0.0420
									1701	155.945	0.0444
									1702	147.779	6.0455
									1703	144.354	C.0486
									1734		0.0477
									1705		0.0487
									1706 1707		0.0458
									: / 0 /	104.2€2	0.0504
									1706	94.339	0.0511
									1709	87.345	0.0516
									1710 1712	54.875 50.975	0.0525
									1713	61.662	0.0545
									1716		0.0562
									1717 1718	82.197 48.977	0.0568
									1719	43.920	0.0574
									1722	32.057	0.0583
									1724	26.324	0.0587
									1725		0.0569
									1727	20.372	0.0592
									1731	20.672	0.0598
									1733	19.849	0.0601
									1734	18.449	0.0602
									1737	16.617	0.0608 0.0608
									1739	13.838	0.0608
									1740 1742	11.778 8.768	0.0809 0.0611
									1744 1748	6.893 8.323	0.0612
									1749	5.268	0.0614 0.0614
									1753	4.543	0.0618
									1755	3.498	0.0616 0.0616
									1757	2.800	0.0617
									1759	2.016	0.0617
									1801	1.852	0.0618
									1602	1.358	0.0617 0.0618 0.0618 0.0618
									1805		
									1608	0.959	0.0618
									1810	0.678	0.0818
									1812 1814	0.302 0.132	0.0616 0.0616 0.061E
									1814	0.132	0.0616
									1824 1828	0.014	0.0618 0.0618
									1028	0.005	31 30 . 0

Conversion Factor: CFS to IN/RF, multiply by 0.000447.



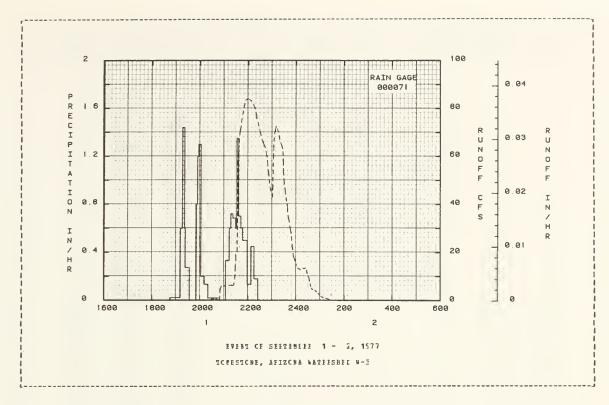
977 SELECTED BONG	OFF EVENT				ICEESICE	E, ABIZC	NA WATEFSE	FL W-3	
ANTECEDENT CONDI				NEALL			EUNCE	F	
[at∈ Fainfall	Funcff	Date	Tise	Intersity	Acc.	Date		Fate	Acc.
mo-Day (irches)	(inches)	Bo-Day	of Lay	(in/hr)	(inches)	#c-lay	of Day	(cfs)	
		EAE	NI CE SEEI	EBBEF 1 -	2, 1977				
EG 000071			FG 0000						
S- 1 0.0	0.0	9-1	1645	0.0	0.0	S- 1	1502	0.0	0.0
			1911	0.0231	0.01		1904	0.064	0.0
			1916	0.6000	0.0€		1509	0.061	0.0
			1921	1.4400	0.1€		1519	0.033	0.0
			1923	0.6000	0.20		1922	0.020	0.0
WATERSHED CCECTIONS:									***
Vegetative cover: des			1534	0.2727	0.25		1923	0.035	0.0
sbruks (whitethorn, cr	eosote-		1951	0.0	0.25		1929	0.037	0.0
tush, and tarkush) wit			1954	0.6000	0.25		1937	0.035	0.0
a crown spread approxi			1956	1-2000	0.23		1944	0.012	
30% and grasses with b	asal		2002	1.3000	0.46		1957		0.0
area of aproximately (-83		2002	1.2000	0.46		1957	0.002	0.0
cover, occupy 55% of t	he area		2011	0.2000	0.45		00.00		
Grasses (black grama,	Curls		2020	0.2000			2004	0.0	0.0
esquite, totosa) with	Cully		2020		0.51		20 25	0.064	0.0000
tasal area of 2.6% cov	d			0.0200	0.52		20 27	0.455	0.0000
and shrub cover of 2%	61		2104	0.0	0.52		2030	0.560	0.0000
the remaining REE . ()	cccati		2113	0.3333	0.57		2035	0.601	0.0000
the remaining 45% of t	₽€								
ar∈a.			2117	0.6000	0.61		20 4 1	0.590	0.0001
			2122	0.7200	0.67		2047	0.235	0.0001
			2125	0.6657	0.75		20 50	0.274	0.0001
			2132	0.6000	0.7€		2051	4-676	0.0001
			2136	1.3500	0.67		2054	5-572	0.0002
							5554	3-3-2	V+ U U U Z
			2142	0.7000	0.54		2101	€.045	0.0005
			2146	0.6000	0.5€		2104	6.166	0.0003
			2152	0.5000	1.03		2119	€.403	0.0007
			2158	0.5000	1.06		2113	6-166	0.0014
			2207	0.1333	1.10		2122		
			2201	0.1233	1.10		2123	€.5€4	0.0017
			2215	0.4500	1.16		2126	7.360	0.0017
			2225	0.1600	1.15		2128	10.737	0-0018
							2129	15.163	0.0019
							2130	19.031	0.0021
							2133	20.447	0.0025
							6133	200447	0.0025

Conversion Pactor: CPS to IB/BB, multiply by .0.000447.

€3.003- 4

	SELECTED EURO					ICHESTC	SE, MEIZCI	NA WATERSHE		
Dat∈ Mo-Day	ELENT CCNDIT Rainfall (irches)	Funcff (inches)	Date Mo-Cay	FAIN Time of Day	Intensity (in/hr)	Acc. (inches)	Dat∈ Mo-Day	RUNCFF Time of Day	Eate (cfs)	Acc. (inches)
				SEFTEMEER						·
			rven Cr	200100000	1 - 2,	1977 (CC:	9- 1	2135 2137 2139 2142 2144	70.052	0.0031 0.0040 0.0061 0.0067 0.0078
								2153 2158	83.627 83.962	0.0107 0.0131 0.0162 0.0187 0.0225
								2217	75.626 68.585 65.646	0.0249 0.0279 0.0306 0.0362 0.0387
								2243 2247 2249 2251 2256	63.587 59.738 55.890 53.192 45.417	0.0416 0.0434 0.0443 0.0451 0.0469
								2301 2302 2303 2304 2306	42.900 48.254 55.602 64.853 65.504	0.0486 0.0489 0.0453 0.0458 0.0508
								2310 2313 2319 2326 2327	67.136 63.169	0.0529 0.0545 0.0576 0.0610 0.0615
								2328 2329 2331 2334 2338	52.183 48.374 44.263	0.0619 0.0623 0.0630 0.0641 0.0653
								2346	34.008 29.616 27.858	0.0656 0.0664 0.0673 0.0678 0.0683
							9- 2	2358 2400	18.304 16.488 15.227	0.0685 0.0686 0.0693 0.0696 0.0697
								11	12.755 13.411 13.471	0.0700 0.0707 0.0713 0.0718 0.0721
								28 32 34 36 37	5.649 6.024 6.934	0.0723 0.0726 0.0727 0.0729 0.0729
								39 42 48 52 56	5.124 4.543 4.094 3.613 3.032	0.0730 0.0731 0.0733 0.0734 0.0735
								59 103 108 114 122	2.299 1.715 1.194 0.986 0.520	0.0736 0.0736 0.0737 0.0737
								124 127 131 135 143	0.309 0.182 0.111 0.073 0.035	0.0738 0.0738 0.0738 0.0736 0.0736
								153 202 225	0.014 0.005 0.0	0.0738 0.0738 0.0738

Conversion Eactor: CFS to IN/RE, multiply by 0.000447.



7 SELECTED BOY	OFF EVEBT				10882108	E. WHISC	NA SATESSE	EL 9-3	
ANTECEDENT CONDI	TIOBS			INFALL			FUNCE		
Date Bainfall Bo-Day (inches)	(inches)	Bo-Day	cf Cay		(inches)	Ec-Day	of Cay	(cfs)	
				 EP1EBBEF 28					
		r	VIBI CF 2.	EFIEBEEF 20	, 13//				
EG 000371			BG 000						
9-26 0.04	0.0	9-26	1439	0.0	0.0	9-26	1519	0.0	0.0
			1444	0.4800			1521	0.142	0.0
			1446	1.8000	0.10		1522	C.854	0.0
			1448	3.9000	0.23		1523	1.754	0.0000
			1450	1.2000	0.27		1525	3.528	0.0000
ATERSHED CONCITIONS									
getative cover: de			1455	0.1200	0.28		15 26	4.880	0.0001
rubs (whitethorn, o			1458	0.2000	0.29		1527	7.888	0.0001
sh, and tarbush) wi			1513	0.0	0.25		1529	18.304	0.0003
cicwn spread approx			1518	1.8000	0.57		1531	19.179	0.0008
and grasses with			1519	1.0000	0.42		1532	21.885	3000.0
es of apportmately							_		
ver, occupy 55% of	the area.		1524	1.2000	0.52		1533	25.217	0.0005
asses (black grama,			1530	1.1000	0.83		1534	28.088	G.0011
sguite, tobcsa) wit			15.34	0.6000	0.87		15 35	25.855	0.0013
sal area of 2.61 co			1540	0.7000	0.74		1536	26.758	0.0015
d shrub cover of 25			1545	0.4800	6.78		1537	33.220	0.0017
e remaining 45% of ea.	t b∈		1553	0.0750	0.75		1539	54.339	0.0024
ea.			1557	0.4500	0.73		1546	70.643	0.0028
			1601	1.0500	6.89		1542	£7.003	0.0020
			1604	1.4000	6.58		1544	96.134	0.0054
			1607	1.8000	1.05		1544	98.131	0.0054
			1607	1.0000	1.05		1546	50.131	0.0022
			1609	0.9000	1.08		1547	101.822	0.0076
			1812	0.8000	1.12		1548	109.627	0.0084
			1619	0.1714	1.14		1549	112.761	0.0092
			1850	0.0	1.14		1551	115.544	C.0109
			1654	1.8500	1.25		1553	117.152	0.0126
			1658	2.5500	1.97		1555	115.945	0.0144
			1702	1.3500	1.51		1556	111.188	0.0144
			1707	1.2000	1.61		1558	107.501	0.0168
			1711	1.0500	1.68		1559	103.658	0.0178
			1716	0.2400	1.70		1801	59.047	0.0191

Conversion Factor: CPS to IB/BE, multiply by 0.000447.

		FF EVENT				TCBESTOR				
ANTFOFE	ENI CONDII	Punch	Date	FAI	NFALL	lee.	£24.c	BUNCI	F	1.00
to-Day	(inches)	(inches)	Mo-Day	of Lay	NFALL Intensity (in/b1)	(inches)	Mc-Day	of Cay	(cfs)	(inches)
					EE 26, 197					
			9-26					1603	66 400	0.0206
			3-2C	1723	0.3600 3.9000 0.9000 1.2000	1.66	3-26	1606	95.954	0.0227
				1727 1729	0.9000 1.2000	1.92		1608 1609	55.055 50.804	0.0242
				1735	0.2000	1.56		1610	52.365	0.0255
				1805	0-0 0-0600 0-0 0-6000 0-6000	1.96		1611	91.680	0.0262
				1 £ 15 18 23	0.0600	1.55		1612 1613	65.963 76.422	0.0269
				1627 1833	0.6000	2.03		1614	65.963 76.422 74.553 61.144	0.0261
				1840	0.2400 0.6000 0.0500 0.0	2.13		1617	65.475 112.761 154.292 171.266	0.0293
				1852 1914	0.3500	2.14		16 18 16 19	154.292 171.266	0.0310
				1920	0.1000	2.15		1621	167.664	0.0349
									199.971	
									196.176 202.156	
								1627	212.716 227.955	0.0437
								1636	233.859 207.955	0.0567
								1638 1639	193.762 165.046	0.0617 0.0611
								1640	167.753	0.0644
								1641	162.413	0.0656
								1642 1643 1644	141.647	0.0679
								1644 1645	162.413 145.855 141.647 126.846 120.404	0.0669 0.0658
								1647	109.239 101.449 95.954 90.629 62.133	0.0714
								1648 1650	90.629	0.0721
								1652	62.133	0.0748
								1653	61.967 76.086 73.336	0.0754
								1656	73.336 69.904	0.0771
								1657 1658	69.904 64.994	0.0777 0.0782
								1702	56.021	0_0800
								1704 1706	53.316	0.0868
								1707	53.445	0.0819
								1710	52.935	0.0831
								1712	57.069 59.065	0.0839
								1718	60.961	0.0666
								1719	62.157 69.463	0.0871
								1723	74.248	0.0891
								1724 1725	74.248 105.399 167.546	0.0697
								1726	242.875	0.0923
								1727	254.862	0.0941
								1728 1729	335.319 390.052	0.0963
								1730 1731	403.635 433.854	0.1020 0.1051
								1733	464.962	0.1118
								1734	505.956	0.1154
								1735 1737	519.489 541.646	0.1192 0.1271
								1738 1741	547.064 549.761	0.1312 0.1434
								1742 1743	556.801 542.034	0.1475 0.1516
								1744 1745	552.896 545.781	0.1557 0.1598
								1747	549.781	0.168C
								1748	556.408	0.1721
								1750 1751	558.758 554.457	0.1804 0.1846
								1752	544.354	0.1886

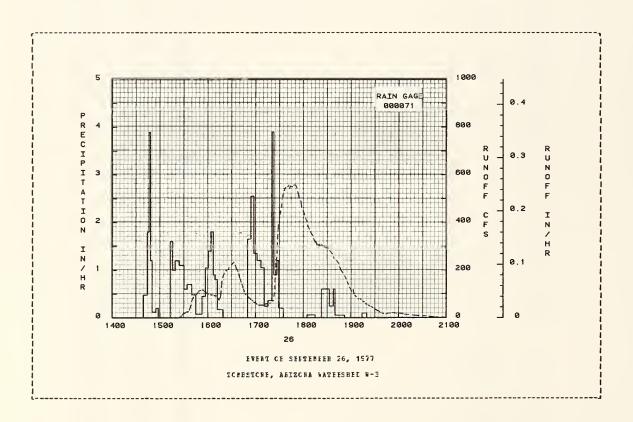
Conversion Factor: CFS to IN/HF, multiply by 0.000447.

		FP EVERT						BA WATERSE		
Date Date	Fainfall	ICES Euncff (inches)	Date Bo-Day	Time I of Dav	ALL ntensity (in/br)	Acc.	Eat∈ 8c-Eav	FUNCE: line of Day	E Eate (cfs)	Acc. (inches)
 	(120062)	(200000)								
			EVENT C	E SEFTEMBER	26, 1977	(LLMOO)		1757	uca 3:2	0 2079
							3-26	1758	463.374	0.2113
								1802	430.104	0.2247
								1605	0.02 0.00	V 2330
								1606	364.375 370.937	0.2389
								1809	355.937 344.639	0.2452
								1613	331.630 316.374	0.2556
								1816	315.772	0.2626
								1817 1816	305.293 307.625	0.2651 0.2674
								1819	304.628	0.2697
								1620 1822 1823	307.292 301.647 307.625	0.2765
								1825	300.989	0.2833
								1827	257.270	0.2877
								1633 1837	250.510 262.844 266.855	0.3008
								1638	255.506	0.3109
								1839 1842	247.761 240.150	0.3128 0.3183
								1845 1847	240.150 226.785 200.293	0.3235 0.3268
								1850	187.401	0.3310
								1854	175.541 182.655 151.714 139.413	0.3337
								1857	139.413	0.3374
								1904	109.822 116.365 56.863	0.3457
								1905 1907	92.739 86.833	0.3469
								1909	75.387	0.3490
								1910 1912	75.387 77.640 78.109 78.397	0.3498
								1913 1915	76.397 69.170	0.3513
								1917	86.275 58.282	0.3534
								1920 1922	55.371	
								1924		0.3563
								1926 1928	45.650 41.580	0.3570 0.3576
								1930 1932	35.717	0.3582 0.3587
								1933	29.985	0.3590
								1935 1936	27.810 25.555	0.3594 0.3598
								1937 1939	21.85E 20.000	0.3598
								1941	17.244	0.3604
								1947 1949	19.031 15.179	0.3611 0.3614
								1950 1952	20.223	0.3616 0.3619
								1958	18.739	0.3627
								2002 2006	17.805 15.889	0.3633 0.3638
								2008 2013	14.334 12.819	0.3840 0.3645
								2018	10.211	0.3649
								20 26 20 31	7.844	0.3655
								2034 2038	7.061 5.053	0.3660

Conversion Factor: CPS to IB/BF, multiply by 0.000447.

1977	SELECTED BUNG	DEE EVENT				ICHESICA	E, ABIZC	NATEES B	EC N-3	
ABS	TECEDEBT CONDI	ricns		FA	NFALL			RUNCE	F	
£at Bc-I		Ennoff (inches)	Date Mo-Day		Intersity (in/hr)	lcc. (inches)	Tat∈ Mc-Day	Time of Cay	Fate (cfs)	Acc. (inches)
			EVENT (F SEFTEM	EF 26, 197	7 (CCN11)	OFI)			
							5-26	2045	3.52€	0.3664
								2047	2.87€	0.3664
								2050	2.255	0.3665
								2054	1.812	0.3665
								2100	1.459	0.3666
								2107	0.546	0.3667
								2112	0.760	0.3667
								2117	0.570	0.3667
								2120	0.411	0.3667
								2124	0.217	0.3667
								2129	0.095	0.3668
								2136	0.044	0.3668
								2139	0.023	0.3666
								2146	0.002	0.3668
								2151	9.6	0.3666

Conversion Factor: CPS to IN/HF, multiply by 0.000447.



LCCATICB: Coobise County, Arizona; 2 miles porth of Tombstore; Walnut Gulch, San Fedro Fiver, Gila Fiver, Colorado Fiver Fasio. Lat. 31 deg. 44 min. 19 sec. 8.; Long. 110 deg. 02 min. 40 sec. W.

ABFA: S€0.00 acr∈s

20	FIBL	FFFCIE	ITATICE	AND FUNC	FF (INCE	F\$)			ICRE	SICNE,	ABIZCNA	6 -4		
		Jan	F∈b	tar	Apr	tay	Jun	Jul	109	S € F	Oct	PCA	D∈c	Arrbal
1977	P Ç	1.32	0.0	0.0 0.0	0.0	0.0	3.67 0.045	2.57 0.014	2.80 0.117	4.57 0.613	2.96 0.022	0.0	0.0	14.85 0.812
SIA AV	P C	0.52	0.36	0.43	0.14	0.11 6.0	0.34	3.26 0.285	2.64 0.127	1.53	0.75 0.005	0.38	0.59	11.32 0.479
	ANBO	Baxi	 Eus	-			aximom	 Vclum∈ f	CFF iuch	ed Time	Interva	1		
		Discb Date		1 ∃cu: Lat∈ Vo		Bours F Vcl.			12 Bours ste Vol.		Pol.	2 Da Dat∈	vcl.	€ Days Dat∈ Vcl.
1977		9-2€	0.391	9-26 0.	256 9-2	0.336	9-2€	0.456 9	-26 0. 45	€ 9-25	0.456	9-24	0.456	9-18 0.456
						PAXIPUES	FCE FF	HO IN	FFCCFC					
		7-19 1955	2.250	7-19 0. 1955	.980 7-1 195		7-19 1955		-19 1.40 1955	0 7-19 1955		7-19 1955	1.630	7-19 9.370 1955

Natershed Conditions: Vegetative ocver: 100% dominated by desert shruts (whitethorm, crecsctebush, and tarbush) with a crown spread of approximately 38% and an understory of grasses with approximately 0.6% basel cover.

Baps: Topographical, Geological, and Vegetation - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1666, USIA Misc. ppb. 1226, pages 60.1-3, 63.1-4, 63.1-5.

Frecipitation: Jecords began July 1954. Bonthly totals are Thiessen weighted averages of 4 raim gages. STA AV values are based on 23 yr beginning 1955.

Ennoff: Becords began January 1955. STA AV values are based on 21 yr beginning 1955 (1959, 1960 not included).

Long-Term Frecipitation: Baticual Weather Service records at Tombstore, Arizona.

1977) DA	ILY PEEC	IF1TATICE	(1BCBFS)				TCEFSICE	F, A312CBA	6 - Q		
Lay	Jan	P∈b	Bar	ytı	Bay	Jun	Jul	A 09	Sep	Cct	Ec∀	Dec
1 2 3 4 E	0.21F 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.u 0.0 0.09 0.09	0.0 T 0.0 0.11 0.56 0.0	3.41 6.0 0.0 0.0 0.0	1.19 0.09 0.0 0.05 0.86	Q.O O.O O.O O.O	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
6 7 8 9	0.0 0.0 0.03F J.0	0.0 0.0 0.3 3.3	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.02 0.0 0.0 0.0	0.0 0.3 0.3 0.01	0.07 0.9 0.04 0.0	0.0 0.0 0.0 0.0	1.04 0.52 0.26 0.70	0.0 0.0 0.0 0.0	0.0 9.0 0.0 0.0
11 12 13 14	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	9.0 0.0 T 0.2u 0.0 0.04	0.0 0.10 0.01 0.01 0.97	0.25 0.0 0.0 0.0	0.0 0.0 0.04 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.3 0.0 0.03 0.01	0.64 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.21 0.46 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 T 0.56 0.0 0.0	0.12 0.31 0.39 0.3	0.11 0.0 0.06 0.13	0.0 0.06 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 27 28 29 30 31	0.0 0.0 0.0 0.14 0.24	0.0 0.0 0.0	9.0 0.0 0.0 0.0 9.7	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	U.0 0.0 0.0 0.0	0.0 0.0 0.03 0.0 0.7 T	0.0 0.0 0.0 0.0 0.0	2.218 0.068 0.0 0.0	0.0 0.0 0.0 0.0	0 - C 0 - 0 0 - 0 0 - 0 0 - 0	0-0 0-0 0-0 0-0 0-0
TCTA1 STA AV	1.32 0.52	0.0 0.3E	0.0	0.0 0.14	0.0 0.11	0.67 0.34	2.57	2.E0 2.E4	4.57 1.53	2.56 0. 75	0.0 0.38	0.0 0.59

Air Temperature: See table for Watersbed 63.001. Gaging: Thiesser weighted values from 4 gages. Station Averages: 23 yr beginning 1955.

197	77	eran Dai	LT EISCHAI	FGE (CFS)				ICEESICN	E, ARIZCE	6-4		
Day	Jan	F∈b	tar	Apr	Bay	Jun	Jul	lug	Sep	Oct	Kc♥	D∈c
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	2.509	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.027	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0
4	0.6	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.143	0.0	0.0	0.0
€	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.517	0.0	0.0
7	0.0	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ç	0.0	0.0	0.3	0.G	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
13	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	ű.ű	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.590	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.062	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	9-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.008	0.0	0.0	0.0	3.0	1.0€7	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.3	0.0	0.0	0.0	0.003	0.0	0-0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.738	0.0	0.0	0.0
27	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.3		0.0		0.311	0.0		0.0		0.0
EAN	0.0003	0.0	0.0	0.0	0.0	0.0356	0.0108	0.0688	0.4805	0.0167	0.0	0.0
NCHES	0.000	0.0	0.0	0.0	3.0	0.045		0.117	0.613	0.022	0.0	0.0
TA AV	0.000	0.0	0.0	0.0	0-0	0.002	0.285	0.127	0.060	0.005	0.0	0.0

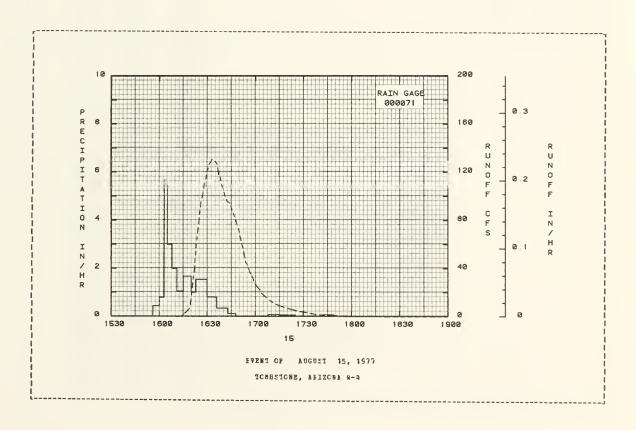
Station Averages: 21 yr beginning 1955 (1955, 1960 not included). Conversion Factor: CPS to IB/CAY, multiply by 0.042503.

7 SELECTED BUNOFI	LATAL				10	EEEICHE,	ABIZCNA 1	, - 4 	
ARTECECENT CONDITIO				IBFALL			FUNCI	F F	
		Date	lime	Intensity				Bate	Acc.
Mo-Day (inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Bo-Day	of Lay	(cfs)	(inches)
		-	VENT OF	AUGUSI 15	1073				
		1			, 1977				
EG 000071			RG 000						
ε-15 0.0 6	0.0	8-15	1556	0.0	0.0	€-15	1611	0.0	0.0
			1600	0.4500	0.03		1612	0.019	0.0
			1803	0.6000	0.37		1614	0.378	0.0000
			1605	5.6588	0.26		16 15	2.102	0.0000
			1608	3.0000	0.41		1616	2. 646	0.0001
ATERSHED CONFITIONS: 0% of area dominated h	hv		1611	2.0030	0.51		16 19	6.795	0.0005
sert sbrubs (whitether			16 15	1.0500	0.58		1620	14.942	0.0009
eosotekush and tarkush			16 20	1.6800	0.72		1621	27.903	0.0015
th a crewn stread of	,		1623	1.0000	0.77		1622	39. 156	0.0025
proximately 33% and an			1630	1.5429	0.95		1623	57.458	0.0039
derstory of grasses wi			1030	10.723	0.55		1025	278436	0.0055
proximately 0.6% basa			1636	0.8000	1.03		16 24	71.044	0.0058
Vel.	•		1643	0.3429	1.07		1625	£2.113	0.0081
*61.			1648	0.1200	1.08		1626	95.621	0.0107
			1708	0.0	1.08		1627	100.667	0.0136
			1715	0.0857	1.05		1828	106.224	0.0167
			.,,,	0.0037	1.02		1020	100.224	
			1725	0.0600	1.10		1629	114.657	0.0200
			1742	0.0	1.10		1631	126.429	0.0271
			1745	0.0857	1.11		1633	130.766	0.0347
							1635	128.654	0.0423
							1636	126.534	0.0461
							1637	117.839	0.0457
							1638	115.909	0.0532
							1639	109-111	0.0565
							1640	106.069	0.0597
							1641	100.000	0.0627
							1642	96.218	0.0656
							1644	94.347	0.0712
							1648	78.914	0.0815
							1650	65.977	0.0858
							1651	62.853	0.0878

Conversion Factor: CFS to IN/85, multiply by 0.001771.

17	SELECTED BONG	FF EVEBT				I	CBESICAF,	ABIZCEA W	- 4	
ABTI	CEDENT CONDIT	IOBS			EF ALI			BUNCE	F	
Cate		Funcff	Date	Ti∎€	Intersity	Ècc.	Dat∈	Time	Fate	Acc.
ăc-Da	y (irches)	(inches)	ĕo-Day	of Lay	(in/hr)	(inch∈s)	Mc-Day	cf Day	(cfs)	(inches)
			EVENT C	F BUGUS	T 15, 157	7 (CCKIII	(DFL)			
							6-15	1653	51.940	0.0512
								16.54	45.027	0.0526
								1655	42.552	0.0535
								1657	35.529	0.0562
								1658	33.765	0.0572
									000.00	*****
								1659	25.774	0.0562
								1701	24.711	0.0996
								1703	21.960	0.1012
								1704	15.065	0.1016
								1707	15.573	0.1033
								1711	11.573	0.1049
								1714	9.572	0.1059
								1718	7.610	0.1069
								1722	6.065	0.1077
								1726	4.64€	0.1063
								1732	3.247	0.1090
								1738	1.676	0.1094
								1743	1.362	0.1057
								1747	0.964	0.1096
								1751	0.774	0.1099
								,,,,,	00114	V. 1033
								1755	0.426	0.1100
								1602	0.216	0.1100
								1805	0.122	0.1101
								1809	0.082	0.1101
								1822	0.0	0.1101

Conversion Factor: CPS to IN/HB, multiply by 0.001771.



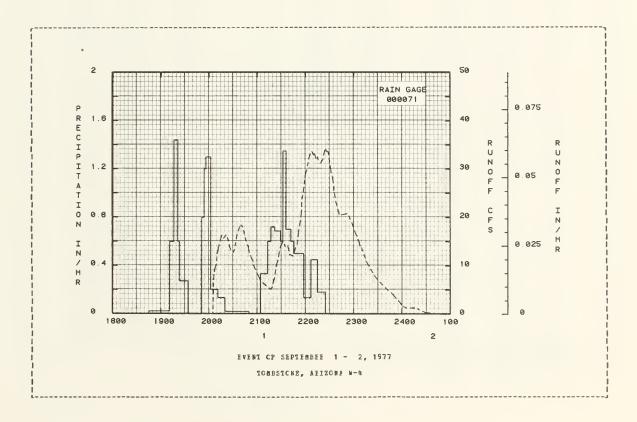
63.004- 3

77 SELECTED RUNOF									
ANTECEDENT CONDITION Late Fainfall Mo-Day [irches]	GBS Runcff inches)	Date Mo-Day	RAI Time cf tay	NFALI Intensity [in/hr]	Acc. (inches)	Eat∈ #o-Day	FUNCF Time of Day	F Bate (cfs)	Acc. (inches)
				ESBER 1 -					
FG 000071									
FG J00071 S- 1 0.0	0.0	9- 1	1845 1911 1916 1921 1923	0.0 0.0231 0.8000 1.4400 0.6000	0.0 0.01 0.06 0.16 0.20	9 - 1	2004 2005 2006 2007 2009	9.0 0.359 7.278 9.000 10.254	0.0 0.0000 0.0001 0.0004 0.0005
NATERSHED CCRITICES: 107 of area dominated essert shrubs (whitetho eeosotelush and tarbus th a crown spread of oproximately 33% and a	rn, b)		1934 1951 1954 1956 2002	0.2727 0.0 0.6000 1.2000 1.3000	0.25 0.25 0.29 0.33 0.48		20 11 20 13 20 14 20 15 20 18	13.101 14.361 15.236 16.343 15.656	0.0018 0.0024 0.0025 0.0038 0.0047
derstory of crasses we proximately 0.6% hasa wer.	ith		20 11 20 20 20 50 2104 2113	0.2000 0.1333 9.0200 0.0 0.3333	0.49 0.51 0.52 0.52 0.57			16.343 15.828 13.787 13.282 12.664	
			2117 2122 2125 2132 2136	0.6000 0.7200 0.8857 0.6000 1.3500	0.81 0.87 0.75 0.78 0.87			13.342 15.616 16.515 16.607 16.405	
				0.7000 0.6000 0.5000 0.5000 0.1333				17.982 15.743 13.828 12.703 10.777	
			2215 2225	3.4500				9.883 8.039 7.000 6.261 5.071	
								5.582 8.428 7.582 10.110 11.076	
								12.231 13.869 14.900 14.402 13.909	
								14.114 13.021 12.271 11.958 12.585	0.0326 0.0334 0.0338 0.0349
							2148 2150 2152 2154 2155	13.747 14.526 17.475 19.358 20.778	0.0381
							2156 2158 2200 2202 2204	23.863 26.183 29.054 29.666 32.146	0.0420
							220 £ 220 8 2210 2211 2213	33.183 33.705 32.951 33.241 32.281	0.0451 0.0511 0.0530 0.0540 0.0555
							2215 2216 2219 2222 2224	32.548 31.880 31.235 32.089 33.880	0.0578 6.0568 0.0616 0.0644 0.0663
							2225 2227 2228 2229	34.114 33.531 33.647 32.951	0.0873 6.0893 0.0703 0.0713

Conversion Factor: CFS to IM/8F, multiply by 0.001771.

£ I	FLECTED ZON	DEE EVENT				10	CFESICRE,	ABIZCKA W	-4	
AKTECED	EKI CONDI	TICKS		E 3.7	NEATT			FURCE	E	
Cate	Bainfall (irches)	Funcff	Dat∈ ≝o-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	rat∈ Ec-ray	lin∈ of tay	Eate (cfs)	Acc. (incles)
			EVENT OF	SEFTEMPEE	1 - 2,	1977 (CC)	NTINUEL)			
							9- 1	2234	27.903	0.0757
								2237		0.0780
								2238		0.07E7
								2242	20.630	0.0813
								2245	20.532	0.0831
								2252	20.778	0.0874
								2254	20.776	0.0874
								2300		0.0520
								2302	16.819	0.0930
								230£	15.362	0.0949
								2306	15.362	0.0545
								2308	14.073	0.0958
								2316	13.747	0.0568
								2216		0.0988
								2319	5.883	0.0557
								2327	7.707	0.1018
								2340	5.396	0.1043
										0.1043
								2347	4.41E 3.310	
								2353	2.585	0.1060
								2357	1.930	0.1064
								2400	1.930	0.1065
							9- 2	2	1.587	0.1067
								6	1.304	0.1088
								16	1.342	0.1072
								19	1.210	0.1073
								22	0.921	0.1074
								0.5	0.250	
								25	0.350	0.1076
								35	0.267	0.107€
								39	0.190	0.1076
								46	0.117	0.1077
								51	0.050	0.1077
								55	0.025	0.1077
								101	0.0	0.1977

Conversion Factor: CPS to IN/SF, andtiply by 0.001771.



63.004- 5

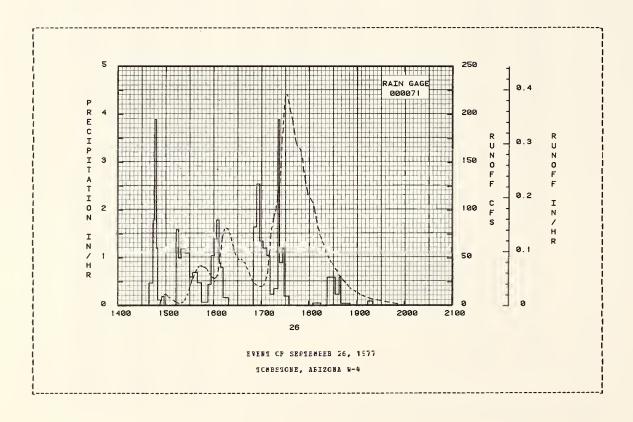
77 81							MEETCNE,			
ANTICE: Fate Bo-Day	EENT CCNDIT Eainfall (irches)	TICNS Funcff (inches)	Date Bo-Day	Tire of Tay	Intersity (in/hr)	Acc. (inches)	Pate Mc-Day	FDNCF Time of Cay	F Fate (cfs)	Acc. (inches)
					FTEBFEF 26					
1	ag 000071		r	FC 0000	71					
9-26	0.04		9-26	1439 1444 1446 1448 1450	0.0 0.4800 1.8000 3.9000 1.2000	0.0 0.04 0.10 0.23 0.27	9-2€	1451 1452 1453 1454 1455	0.0 0.666 1.654 5.884 5.000	0-0 0-0000 0-0000 0-0001 0-0004
00% of are esert shru recsotebus ith a crou pproximate	ccnillicns: a deminated bs (whiteth h aid tark un spread of aly 33% and	by orn, (sb)			0-1200 0-2600 0-0 1-6600 1-0600			1457 1458	10.294 11.611 12.467 11.804	0.0009 0.0013 0.0020 0.0023 0.0030
nderstory pproximate over.	of crasses ≘ly ű.6% bas	with al			1-2000 1-1000 0-6000 0-7000 0-4600			1504 1506 1510 1512 1514	5.732	0.0032 0.0037 0.0046 0.0049 0.0051
				1553 1557 1601 1604 1607	0.0750 0.4500 1.0500 1.4000 1.8000			1517 1520 1522 1524 1525	2.788 3.310 4.197 6.065 8.354	0.0053 0.0056 0.0058 0.0081 0.0063
				1609 1612 1619 1650 1654	0.9000 0.8600 0.1714 0.0 1.6500			1527 1528 1530 1531 1532	11.727 12.822 18.633 22.612 23.832	0.0069 0.0073 0.0082 0.008F 0.0055
					2.5500 1.3500 1.2000 1.0500 0.2400				27.092 26.176 32.203 35.055	
					0.3600 3.5000 0.9000 1.2000			1541 1542 1544 1546 1547	40.083 41.582 42.023 41.456 40.705	0.0183 0.0195 0.0220 0.0245 0.0257
				1805 1815 1823 1827 1833		1.58 1.55 1.55 2.03 2.05			39.054 38.296 36.304 33.531	0.0304 6.0315 0.0326 0.0347 0.0366
				1838 1640 1852 1514 1520	0-2400 0-8006 0-0500 0-0	2.11 2.13 2.14 2.14 2.15		1558 1600 1601 1603 1604	25.441	0.0375 0.0353 0.0401 0.0418 0.0427
								1605 1606 1608 1610 1611	32.203 36.663 48.306 63.553 69.901	0.0436 0.0446 0.0471 0.0504 0.0524
								1612 1613 1614 1616 1619	74.551 76.200 60.166 81.550 79.152	0.0545 0.0568 0.0591 0.0639 0.0710
								1620 1621 1622 1624 1626	76.388 74.513 71.733 63.626 57.994	0.0733 0.0755 0.0777 0.0817 0.0853
								1627 1628 1631 1632 1635	55.879 52.967 46.972 48.173 48.905	0.0870 0.0886 0.0931 0.0945 0.0988
								1636 1638 1640 1642 1643	48.041 45.416 44.189 39.033 37.993	0.1002 0.1030 0.1056 0.1081 0.1092

	SELECTED BUNG		TCMEETCRE, ABIZCRA W-4 FAINFALL FUNCEF Date Time Intersity Acc. Date Time Fate Bo-Day of Day (in/hr) (inches) Mc-Day of Day (cfs)							
ANTEC	EDENT CONDIT	ICBS	Date	Fal	NFALL Intersity	Acc.	[at∈	FUNCF Time	F Fat∈	Acc.
Bo-Day	(irches)	(inches)	no-Day	of Cay	(in/hr)	(inches)	Mc-Day	of Day	(cfs)	(inches)
					FF 26, 197					
			54181	.r giiiibt	20, 151	, (ссь11.	5-28	1545	17.616	0 - 1110
							3-20	1646	31.251	0.1114 0.1123 0.1156 0.1170 0.1183
								1650 1652	24.359	0.1155
								1654	21.712	0.1183
								1658	15.954	0.1208
								1701 1703	19.954 20.338 21.712 23.067	0.1226 0.1238
								1704	23.067	0.1245
								1736	26.265	
								1707	30.109 34.937 93.790	0.1269
								1709	93.740	0.1290
									54.070 58.920	
								1712	75.605	0.1391
									£1.3ES	
								1715	63.467 65.729	0.1414
								1717	96.987	0.1469
								1718	99.050	
								1721	114.596	0.1593
									117.541 125.276	
								1724	137.114	0.1702
								1725	150.868	0.1744
								1727	182.462	0.1845
								1728	197.928	0.1902
									209.744	
								1732	220.783	0.2155
									219.059 213.790	
								1735	210.785	0-2346
								1736	204.957	0.2408
									194.369 188.634	
								1741	165.414	0.2696
								1742	178.800 173.488	0.2750
								1745	167.411	0.2903
									163.763 158.087	
									153.252	
								1753	143.036	0.3283
								1755	139.514 134.948	0.3365
								1756	127.587	0.3404
								1758 1759	120.297 115.706	0.3477
								1803	110.695	0.3845
								1805 1607	107.634	0.3710 0.3771
								1808	96.731	0.3800
								1809	93.417	0.3829
								1810 1811	86.587 82.920	0.3855
								1813	78.275	0.3928
								1814 1616	73.737	0.3950
								1817	66.888	0.4013
								1819 1821	63.699 59.492	0.4051 0.4088
								1822	55.879	0.4105
								1824	52.761	0-4137
								1825 1827	49.577	0.4152
								1828	45.027	0.4194
								1830 1831	44.124	0.4221
								1834	37.811	0.4269
								1836	36.065	0.4291

Conversion Factor: CFS to IB/BF, multiply by 0.001771.

1977 5	ELECTED RUNG					10	EESICKE,	ABIZCNA W	-4	
ANTECE	CENT CONDI	ricks		FA				FUNCE		
Eat∈ Mo-Day	Rainfall (inches)	Funoff (inches)			Intensity (in/hr)	Acc. (inches)	Eat∈ Bo-Day	Time of Cay	Fate (cfs)	Acc. (inches)
			RVENT	CF SEFTEM	EER 26, 197	7 (CCNT)	(DEC)			
						. ,	•			
							9-26	1641	29.441	0.4338
								1842	27.958	0.4346
								1846	23.986	0.4377
								1848	22.364	0.4391
								1850	20.193	0.4403
								1852	18.768	0.4415
								1853	17.519	0.0420
								1857	15.871	0.4440
								1859	14.361	0.4449
								1902	13.382	0.4461
								1904	11.998	0.4469
								1907	10.927	0.4479
								1910	9.649	0.4488
								1920	€.857	0.4512
								1931	5.267	0.4532
								1941	3.604	0.4545
								1952	1.862	0.4554
								1958	1.033	0.4557
								2001	0.846	0.4557
								2008	0.817	0.4559
								2016	0.706	0.4561
								2022	0.341	0.4562
								2029	0.275	0.4562
								2040	0.127	0.4563
								2050	0.053	0.4563
								2102	0.010	0.4563
								2115	0.0	0.4563

Conversion Eactor: CFS to IN/85, multiply by 0.001771.



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LOCATION: Cochise County; 1-1/2 miles northeast of Tombstone; Walnut Gulch, San Fedro Biver, Gila Fiver, Colorado Fiver Fasin. Lat. 21 deg. 02 min. 23 sec. N.; Long. 110 deg. 02 min. 35 sec. F.

AFFA: 3830.00 acres 5.98 sg. miles

ě (FIBLE	PEFCIE	ITATICN	AND BON	OFF (INC	EFS)			102	ESICBE,	ABIZCBA	9 - F			
		Jan	Feh	Bar	ytr	Bay	Jun	Jul	Atg	Sep	Oct	BCV	Dec	1	trusl
1977	F Ç	1.59	0.0	0.0	0.0	0.0	1.03 0.027	2.21 0.010	2.51 0.027	3.73 0.325	3.12 0.001	0.0	0.0		4.19 0.394
SIA AV	F Q	0.50	0.50	0.55	9.18 0.0	0.23	0.42 0.006	2.55 0.046	2.63 0.106	1.86	1.08 0.003	0.31	0.3		1.73
	ANBU	AL PAXI	 				Maximum	Volus€ f	CFF (inch	ed Time		1	IBTEEV.		avs
		Dat€	- 3 -	1 Hou Late V		te Vol.			12 Eours at∈ Vol.		Vol.	Eat€			Vol.
1977		9- 1	0.305	9-1 0	.181 9-	1 0.232	9 - 1	0.245 9	- 1 0.24	5 9- 1	0.245	E-31	0.245	8-28	0.306
						PARIPOR	S FCF FE	FICE CF	140011						

Watershed Conditions: Vegetative cover: approximately 33% of area is deminated by desert shrubs (whitethorm, creosotebush, tarhush) with a crown spread of approximately 30% and an understory of grasses with less than 1% tasal area. The remaining 67% of the area is dominated by grasses (black gramma, curly seguite, sidecats gramma) with a tasal area of about 2.5% interspersed by desert shrubs with a crown spread of 5%.

Bags: Topographical, Geological, and Vegetation - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1566, USDA Miscs. Pub. 1226, pages 63.1-%, 63.1-%, 63.6-63.1-4, and 63.1-5.

Precipitation: Fecords began 1563. Bonthly totals are Thiesser weighted averages of 17 gages. STA AV values are based on 10 yr beginning 1566.

Eumoff: Fecords began 1963. STA AV values are based on 11 yr beginning 1966 [1967 not included].

Long-Term Precipitation: Mational Weather Service records at Tombstone, Arizona.

1977	E A	ILY PREC	IPITATICE	(IECHES)				ICHFSION	F, ABIZCE	3 - # A		
tay	Jan	F∈b	Bar	Āŗī	Bay	Jun	Jul	Aug	S∈p	Gct	Nev	Γ€C
1	0.261	0.)	0.3	0.0	0.0	0.0	0.02	0.401	1.39	0-0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0 T	0.04E	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.14E	0.45	0.0	0.05	0.0	0.6	0.0
£	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.0	0.77	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-04	0.0	1.09	0.0	0.0
7	9.0	0.0	0.0	0.0	0.0	0.04	0.0	0.02	0-0	0.95	0.0	0.0
8	0.071	0.0	0.0	0.0	0.0	0.15	0.0	0.09	0.0	0.25	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	u_0	0.76	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.36	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	0.18	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	C.0	30.0	0.05	0.0	0.03	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0 I	0.11	0 - 0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.50	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.02F	0.01E	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0	0.0	0.0
20	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.311	0.0	0.0	0.0	0.0	0.41	0.07	0.12F	0.0	0.0	0.6	0.0
22	0.551	0.0	0.0	0.0	0.0	0.69	0.22	0.0	0.09	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.281	0.012	0.0	0.0	0.0	0.0
24	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
25	0.031	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.92N	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11R	0.0	0.0	0.0
28	0.0	0.0	0.0	0.3	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0
29	0.16		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0
30	0.20		0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.611	0.11		0.0		0.0
CTAL	1.59	0.0	0.0	0.0	0.0	1.03	2.21	2.51	3.73	3.12	0.0	0.0
VA AL	0.50	0.50	0.55	0.18	0.20	0.42	2.95	2.83	1.66	1.08	0.31	0.37

Air Temperature: See table for Watershed 65.001. Gaging: Thiesser weighted walues from 17 rain gages. Station Amerages: 10 yr beginning 1968.

157	7	MEAN DAIS	LY CISCHAI	GE (CES)				1CEES10	NE, ABIZO	KA 6-8		
Day	Jan	F∈b	ĕar	Apr	Bay	Jut	Jīl	Aug	S∈p	Cct	Rcv	Гес
1	G_O	0.0	0.0	0.0	0.0	0.0	0.0	3.107	39.343	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.177	0.034	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0-0	0.0	0.0	0.0
q	0.0	0.0	0.0	0.0	0.0	0.0	0.J I	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.853	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.090E	0.0	0.0
7	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0
8	0.0	0-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
ç	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0-0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0
11	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.3	0.0	9.0	0-0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.3	0.0	0-0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0 - 6	0.0	1-020E	0.0	0.0	0.0	0.0
17	0.0	0-0	0-0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0-0
19	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0-0
20	0.0	0.0	0.0	0.0	0.0	0.0	0-3	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	9-0	0.0	0.0	0-0	0.0	0.0	0.0	0.0
22	0.758F	0.0	0.0	3.0	0.0	4.350	0.0	0-0	0-0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0
24	0.0	0-0	0.3	0.0	0.0	0.0	0.0	C.O	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0-0	3.0	0.0	0-0	0.0	0.0	0.0	3.012	0.0	0.0	0-0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
28	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0
31	0-0		6.0		0.0		1.631	C-0		0-0		0-0
EAR	0.0245	0.0	G.O	0.0	0.0	0.1450	0.0544	C.1389	1.7414	0.0029	0.0	0.0
NCBFS	0.005	0.0	0.0	0.0	0.0	0-027	0-610	0.027	0.325	0.001	0.0	0.0
IA AV	0.000	0.0	0.0	0.0	0.0	0.006	0.046	0.106	0.100	0.003	0.0	0.0

Station Averages: 11 yr beginning 1966 (1567 not included). Conversion Factor: CPS to IN/CAY, anltiply by 0.006215.

77 SELECTED BUNG	FF BVFR1					CHESICHE	, ABIZCEA	N-E	
ANIECEDENI CONDIT				RFALL			BONG	EF	
[at∈ Bainfall	Buncff	Date		Intensity	Acc.	Lat ∈		Fate	Acc.
Eo-Day (inches)	(inches)	Ho-Day	of Cay	(in/hr)	(inches)	Ec-Day	of Cay	(cfs)	(inches)
		EVE	NI OF SEPI	EMBER 1 -	2, 1977				
FG 000251			FG 0000	551	·				
9-1 0-0	0.0	9-1	1939	0.0	0.0	9- 1	2302	0.0	0.0
			1941	1.2000	0.04	- '	2003	0.483	0.0
			1943	0.3000	0.05		2004	1.664	0.0000
			2005	0.0545	0.07		2005	3.772	0.0000
			2008	1.6000	0.16		2007	4.606	0.0001
WATERSBED CONDITIONS:			2000		0.10		2307		510501
regetative cover: App			2013	0-1200	0.17		2008	5.021	0.0001
imately 33% of the are			2016	1.6000	0.26		2010	10-770	0.0002
lowinated by desert sh			2018	3.6000	0.36		2012	7.563	0.0003
(whitethern, creosoteb			2020	4-2000	0.52		2012	4.649	0.0003
artnsh) with a crown	450,		2022	2.1000	0.52		2015	3.504	0.0003
spread of approximatel	v		2022	2. 1000	0.03		2013	2.504	0.0003
of and an understory			2024	6.6585	0.62		20 17	2.754	0.0004
rasses with less than			2024	0.6000	0.62		2017	2.754	0.0004
grasses with less than casal area. The remai			2031	0.5000	0.85		2024	1.260	0.0004
7% of the area is dom			2035	2.4000	1.07		2024	0.663	0.3004
									0.0004
ny grasses (black gram			2041	1.8000	1.16		2030	0-272	0.0004
nrly mesgnite, sideoa			0040	2 5000	1.32		20.22	0.456	0-0004
raga) with a basal ar			2044	3.2000			2032	0.156	
hont 2.5%, interspers			2048	0-5000	1.36		2034	0-056	0-0004
esert shrmbs with a c	ICAD		2053	0.0	1.38		2035	0.125	0.0004
pread of about 5%.			2111	0.0333	1.35		2036	161.301	0.0008
			2132	0.0	1.35		2037	438.751	0.0022
			2143	0.1636	1.42		2038	693.876	0.004€
			2148	0.1200	1.43		2039	506.486	0.0081
			2210	0.0545	1.45		2040	1007.975	0.0122
			2217	0.3429	1.49		2041	1035.537	0.0166
			2221	0.5000	1.55		2042	1049.445	0.0211
			2224	0.0	1.55		2043	1005.124	0.0255
			2241	0.0706	1.57		2045	1170.449	0.0349
							2046	1116.061	0.0399
							2047	1072.225	0.0446
							2048	1011-571	0.0451

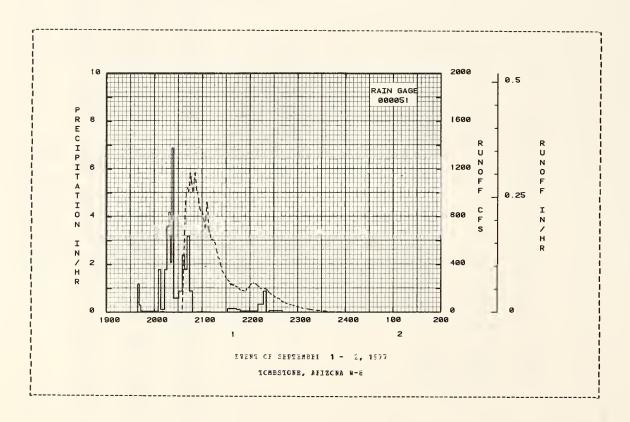
Conversion Factor: CFS to IN/BF, multiply by 0.000259.

	ELECTED BONO							, ABIZCEA		
Date Fc-Day	CDB1 CCUCIT Bainfall [irches]	HONS Suncff Linches	Date Bo-Day	Tire of Cay	IEALI Intersity (in/br)	lcc. (inches)	Date Mc-Day	Time of Day	Fate (cfs)	Acc. [inches]
			EAERI CE	SEFTEBEEF	1 - 2,	1977 [CC				
							S- 1	2049 2050	1021.128 1128.646 1175.954 1021.128 1007.975	0.0535
								2051	1175.954	0.0631
								2054	1007.975	0.0769
								2056 2057	965.645 913.656 871.028	0.0853
								2058	851.669 843.133	0.0925
								2102	621.436 787.331	0.1073
								2105	706.313 819.323	0.1170
									525.649	
								2108	871.568 714.831	0.1281
								2109	673.707 656.225	0.1311
									626.052	
								2112	613.945	0.1394
								2115	613.945 602.313 567.260	0.14/3
									565.167 515.062	
									456.886	
									457.730	
								2123 2124	401.594 380.735	0.1647
								2125	347.147	
								2127	331.819	0.1709
								2129 2130	288.512	0.1749
									272.865	
								2134 2135	259.843 240.286	0.1807
								2136	226.829 238.922	0.1817 0.1827
								2138	231.831	0.1837
								2139	228.165 236.207	0.1847
								2142	220.929	0.1877
								2144 2146	213.823 203.408	0.1855 0.1913
								2148	186.833	0.1930
								2151 2153	183.910 175.572	0.1954
								2155 2156	185.368 197.569	0.1986
								2158 2202	207.161 242.684 247.867	0.2050
								2204 2205	243.71€	0.2082
								2207	235.604	6.2103
								2212 2213	212.864 203.406	0.2152
								2214 2220	155.655	0.2169 C.2221
								2222	187.715	0.2237
								2223	160.146	0.2245
								2224 2226	165.675 159.010	0.2267
								2227 223 0	150.025 141.325	0.2274 0.2293
								2232	130.018	0.2304
								2235 2238	115.457 110.463	0.2320 0.2335
								2240 2243	54.898 £3.970	0.2344 0.2356
								2245	79.655	0.2363
								2247	70.484	0.2369
								2250	66.941	0.2378

Conversion Factor: CFS to 18/85, sultiply by 0.000255.

7	FLECTED BON	UPP EVENT		TCMESTONE, ARIZONA 6-6									
	CENT CONDI	TICKS		RAI	NFALL			RUNCE	F				
Eate Mo-Day	Fainfall (inches)	Runcff (inches)	Dat∈ Mo-Day	Time cf Cay	Intensity (in/hr)	Acc. (inches)	Eat∈ Bo~Eay	li∎∈ of Cay	Fate (cfs)	Acc. (inches)			
			EVENT CF	SPPIFMEEL	1 - 2,	1977 (CC)	STINUEC)						
							9- 1	225€	54.365	0.2354			
							•	2259	45.176	0.2401			
								2302	43.485	0.2407			
								2305	36.453	0.2412			
								2307	32.801	0.2412			
								2307	32.001	0.2415			
								2315	24.132	0.2425			
								2319	20.515	0.2425			
								2323	16.831	0.2432			
								2328	14.383	0.2435			
								2333	11.509	0.2438			
								2223	11.505	0.2436			
								2337	E.755	0.2440			
								2343	5.749	0.2442			
								2346	4.760	0.2443			
								235.2	4.265	0.2444			
								2358	3.663	0.2445			
								2400	3.342	0.2445			
							9- 2	4	2.882	0.2446			
								18	1.931	0.244€			
								15	1.393	0.2447			
								18	0.922	0.2447			
								22	0.560	0.5003			
								23	0.560	0-2447			
								35	0.220	0.2447			
								42	0.066	0.2447			
								51	0.015	0.2447			
								104	0.005	G.2447			
								116	0.002	0.2447			
								134	0.0	0.2947			

Conversion Factor: CFS to IN/EF, multiply by 0.000255.



62.008- 4

LCCATION: Cochise County; 4-1/3 miles northeast of Tombstone; Walnut Gulch, San Fedro Biver, Gila Fiver, Colorado Biver Fasin. Iat. 31 deg. 44 min. 28 sec. N.; Ioug. 109 deg. 55 min. 40 sec. N.

AFFA: 2025.00 acres 3.18 sg. miles

ē C	BIBLE	PEECI	FITATICE	AND ED	NCFF (IN	EES)			1CEE:	SICAE,	AFI2CBA	k-11			
		Jan	P∈b	ŧar	A F T	eay	Juu	Jul	≥ug	2€£	Cct	₽CA	Dec	i	rruel
1977	Č Ē	1.60	0.0	0.0	0.0	0.0	1.27 0.101	2.30 0.038	2.29	3.64 G.439	3.23 0.014	0.0	0.0 G.0		14.37 0.654
VA AP	Ő	0.52	0.50	0.51	0.18 0.0	0.23	0-42 0.011	3.07 0.061	2.92 0.125	1.84	1.07 0.005	0.31	0.38		11.96 0.346
	ABBU	AL EAX	INDN DIS	CHAFGE	(in/hr)	MIKAS DA	S ACTOF	S OF FUN	CFE (inch	es) ECB	SILICTE	181 1	1512592	LS	
				1 Bc		2 Pours	6 Bc	urs	cr Select 12 Fours ate Vcl.	1		2 Da			Cays Vol.
1977		9- 1	0.4 H4	9- 1 (0.332 9	· 1 0.356	9- 1	0.359 9	- 1 0.35	9 6-31	0.359	E-30	0.359	8-2B	0.439
						PARIFOR	S FCF FE	FICE CF	TECCEC						
		9- 5 1975	0.574	9-10 (1964		- 9 0. 750	9-9 1964		- 9 0.97	0 9- 9 1964	0.970	9-10 1964	1.460	9- E	1.700

Watershed Conditions: Approximately 20% of the area dominated by desert shrubs (whitethorr, creosotebush, tarbush with a crown spread of approximately 30% and an understory of grasses with a basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sidecats grama) with a basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown.

Bajs: Topographical, Geological, and Vegetation - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1566, USLA size. Pub. 122c, pages 62.1-5.

Precipitation: Records began 1963. Monthly totals are Thiessen weighted averages of 10 rain gages. STA AV values are based on 10 yr beginning 1966.

Eumoff: Becords tegan 1563. STA AV values are based on 11 yr beginning 1966 (1967 not included).

Long-Term Frecipitation: Bational Weather Service records at Tombstone, Arizona.

1977	£ A	ILY PEEC	IFITATICE	(IBCHES)				1CEES1CRE	, AHIZCEA	£-11		
Cay	Jan	P∈b	Bar	yŁı	Say	Juu	Jul	Aug	Seţ	Cct	Bc▼	D€C
1	0.27E	0.0	0.0	0.0	0.0	0.0	0.02	0.29E	1.47	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01E	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.16E	0.44	0.0	0.04	0.0	0.0	0.0
ē	0-0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.87	0.0	0.0	0.0
€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	1.13	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.02	0.0	1.02	0.0	0.0
8	0.06 E	0.0	0.0	0.0	0.0	0.21	0.0	0.07	0.0	0.23	0.0	0.0
č	0.0	0.)	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.77	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0
13	0-0	0.0	0.0	0.0	0.0	0.0	0.01	0.06	0.0	0.03	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.1€	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.25	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0
17	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.01	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	30.0	0.03	0.0	0.0	0.0	0.0
20	0.01	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
21	0.34	0.0	0.0	0.0	0.0	0.02	0.04	0.13	0.0	0.0	0.0	0.0
22	0.57	0.0	0.0	0.0	0.0	0.63	0.24	0.0	0.12	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.25E	0.0 T	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
25	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.678	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.118	0.0	0.0	0.0
28	0.0	2.0	0.0	0-0	0.0	0.0	0.031	0.0	0.0	0.0	0.0	0.0
29	0.17		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0
30	0.19		0.0	0.0	0.0	0.0	0.061	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.67E	0.03		0.0		0.0
TCTAL STA AV	1.64	0.0 0.50	0.0 0.51	0.0 0.18	0.0 0.23	1.27	2.30	2.29	3.64 1.64	3.23	0.0 0.31	0.0 0.38

Air Temperature: See table for Watershed 63.001. Gaging: Thiessen weighted walues from 10 stations. Station Averages: 10 yr beginning 1968.

197	7	MEAN DAIS	Y DISCRA	GE (CFS)				ICRESICE	E, AFIZCE	B-11		
Day	Jan	F∈b	far	Apr	Eay	Jur	Jul	Aug	Sep	0ct	Bcv	[ec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.423	30.700E	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	6.863E	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	1.126E	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.066B	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012E	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.9	0.0	0.0	0.0	0.0	0.0	0.0	2.957E	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.844	0.0	0.0	0.0	0.0	8.677E	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		3.263F	0.0		0.0		0.0
MEAB	0.0595	0.0	0.0	0.0	0.0	0.2892	0.1052	0.1090	1.2525	0.0384	0.0	0.0
IBCBES	0.022	0.0	0.0	0.0	0.0	0 - 10 1	3:0.0	0.040	0.439	0.014	0.0	0.0
VA AF	0.002	0.0	0.0	0.0	0.0	0.011	0.061	0.125	0.122	0.005	0.0	0.0

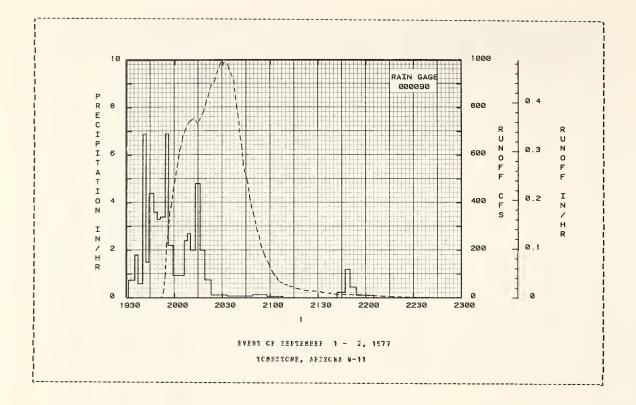
Staticn Averages: 11 yr beginning 1966 (1967 nct included). Conversion Factor: CPS to IB/DAY, multiply by 0.011696.

7 SELECTED BUNGER EVENT				10	BESICUE,	ABIZCHA	i-11	
ABTECEDENT CONDITIONS			IBFAII			FORCE	F E	
Date Bainfall Buncff Bo-Day (inches) (inches		Time of Lay	Intersity (in/hr)	Acc. (inches)	Dat∈ Ec-Day	Time of Day	Eate (cfs)	Acc. (inches)
	FVE	NI CE SEF	TEBEER 1 -	2, 1977				
BG 0C0090		5G 000						
9-1 0.0 0.0	9- 1	1931	0.0	0.0	9- 1	1944	0.0	0.0
		1935	0.7500	0.05		1945	0.104	0.0
		1937	1.6000	0.11		1948	0.648	0.0000
		1940	0.6000	0.14		1949	1.413	0-0000
		1942	6.8985	0.37		1951	1.978	0.0000
ATEFSBED CONFITIONS:								
getative cover: Approx-		1944	1.5000	0.42		1952	4.198	0.0001
ately 20% of the area is		1947	4.4000	0.64		1953	23.855	0.0002
sipated by desert shrubs		1949	3.6000	0.78		1954	93.319	0.0007
hitethorn, creosotebush,		1951	3.3000	0.67		1955	219.635	0.0019
rbush) with a crown		1954	3.4000	1.04		1956	269.560	0.0039
read of approximately			224000					
cover and an understory		1956	6.8985	1.27		1957	363.877	0.0065
grasses with hasal area		1959	2.2000	1.36		1958	386.446	0.0096
less than 1%. The		2006	0.9429	1.45		1959	451.370	0.0130
maining 80% of the area		2008	2.4000	1.57		2000	487.443	0.0166
FROITS A GRASS COVER		20 10	2.7000	1.66		2000	533.716	0.0209
process a grass cover lack grama, curly mesquite.		20 10	2. 7000	1.00		2001	223.716	0.0203
		20.12	2 0000	9 36		2002	570.001	0.0254
lecats grama) with basal		2013	2.0000	1.76				
ver of about 2.5% inter-		20 16	4.6000	2.00		2003	622.658	0.0302
rsed with desert shruks		2019	2.0000	2.10		2004	640.248	0.0354
eraging less than 5%		2023	0.7500	2.15		2005	660.356	0.0407
OMD COAGL.		2033	0.1200	2.17		2007	716.069	0.0521
		2049	0.0750	2.15		2009	741.575	0.0639
		2058	0.1333	2.21		20 12	756.262	0.0822
		2 108	0.0600	2.22		2013	746.236	0.0883
		2142	0.0	2.22		20 14	734-500	0.0943
		2147	0.2400	2.24		20 15	742-464	0.1003
		2,,,,	0.1.00	***		20.0	. 720707	
		2 150	1.2000	2.30		2016	756.709	0.1064
		2154	0.4500	2.33		2018	762.833	0.1189
		2205	0.1091	2.35		2020	833.438	0.1320
						2021	848.865	0.1366
						2022	860.153	0.1459

Conversion Factor: CES to IM,BB, multiply by 0.000487.

77	SELECTED BONG	FF EVERT						AFIZCNA		
ANTEC Late Bo-Day	FDB81 CC8DIT Rainfall (irches)	Funcff (inches)	Date Bo-Day	RAII Time of Day	FALL Intensity (in/br)	Acc. (inches)	Lat∈ Bc-Day	FUBCI Time of Day	Fate (cfs)	Acc.
					1 - 2,					
			14881 01		,			2025 2026 2027	697.896 512.862 943.177 956.999 991.435	0.1676 0.1753 0.1831
								2031 2033 2034	\$76.356 \$\$2.435 \$85.406 \$60.964 \$31.397	0.2149 0.2309 0.2386
								2036 2039 2040	\$11.912 847.945 751.476 756.262 676.508	0.2666 0.2755 0.2816
								2042 2043 2045 2046 2047	638.965 556.073 501.132 478.027 424.335	0.2578 0.3064 0.3104
								2046 2050 2052 2053 2054	350.156 335.35h 277.272 255.602 225.124	0.3233 0.3283 0.3305
								20 56 20 57 20 55	166.545 165.666 143.367 112.715	0.3358 0.3372 0.3358 0.3416
								2104 2105 2106 2108 2109	88.591 71.371 66.803 61.286	0.3443 0.3445 0.3455 0.3465
								2111 2112 2114 2117 2115	54.052 46.776 46.960 38.313	0.3475 0.3463 0.3451 0.3501
								2122 2124 2129 2132 2134	20.936 25.650 27.875 24.804	0.3520
								2137 2138 2140 2143 2152	15.749 17.657 15.553 14.558 13.070	0.3547 0.3549 0.3551 0.3555 0.3565
								2157 2200 2202 2207 2209	12.670	0.3570 0.3573 0.3575 0.3575 0.3579
								2212 2215 2218 2225 2231	6.844 5.662 4.417 2.754 2.074	0.3582 0.3584 0.3565 0.3587 0.3588
								2237 2242 2300 2308 2317	1.413 1.049 0.387 0.198 0.067	0.3589 0.3589 0.3590 0.3590 0.3591
								2341 2344	0.001	0.3591 0.3591

Conversion Factor: CPS to IB/B5, pultiply by 0.000487.



63.011- 4

LCCATION: Occhise County; 5/4 miles east of Tombstone; Walnut Gulch, San Fedro Fiver, Gila Fiver, Colorado Biver Hasin. Iat. 31 deg. 42 min. 46 sec. N.; Iong. 110 deg. 02 min. 25 sec. W.

5912.00 acres 9.24 sg. miles

ē C	KIBLY	PRECIP	ITATICN	AND BUKC	FF (IBC	EFS)			TCBE	STCRE,	AFIZCNA	§-15			
		Jan	P∈b	łar	% F T	ř a y	Jun	Jul	àчg	2€‡	Cct) C ■	£∈c		Arnual
1977	P Q	1.35	0.0	0.0	0.0 0.0	0.0	0.32 0.0	2.17 0.0	3.29 0.097	3.28 0.071	3.88 0.063	0.0	0.0		14.25
SIA AV	P Q	0.51	0.46 0.0	0.54 0.902	0.18	0.16	0.34	3.46 0.041	3.02 0.104	1.56 0.029	0.94	0.30	0.7		12.25
	ABBU	Par tari	5 D G	CBARGE (i		NE BARIMOB B 2 Bours	aximon	Volume fo	FF (inch	ed Time		1	INTERV		Cays
		Dat€		Date Vc		t∈ Vol.			at∈ Vcl.		Vcl.		Vcl.		Vol.
1577		6-15	0.J89	8-15 0.	066 8-	15 0.083 MAXIMOMS		0.093 8-		3 6-15	0.097	6-14	0.097	8- E	0.097
		8-10 1571	0.211	8-10 G.		10 0.180	6-19 1966		-19 0.20	0 6-19 1966	0.230	6-19 1966	0.250	8+19 1566	0.250

Watersbed Conditions: Vegetative covers Lesert sbrubs (whitetborn, crecsctebush, tarbush) occupy 76% of the eres with a crewn spread of approximately 30% and an understory of grasses of less than 1% lasal area. 22% of the area is in grass cover (black gramma, tobosa grass, blue gramma, sideoats gramma, and curly mesgnite grass) of approximately 2% basel area.

Maps: Topographic, Geologic, and Vegetation - Bydrologic fâta for Experimental Agricultural Watersbeds in the United States, 1966, USLA Misc. Pub. 1226, pages 63.1-3, 63.1-5.

Precipitation: Becords began January 1965. Monthly totals are Thiessen weighted averages of 15 rain gages. STA AV values are based on 13 yr beginning 1965.

Ennoff: Becords began January 1965. STA AV values are based on 13 yr beginning 1965.

Long-Term Frecipitation: Bational Weather Service records at Tombstone, Arizona.

1577	7 E A	ILY PREC	IFITATICE	(INCHES)				TOPESTORE	, ABIZCEA	W-15		
Ley	Jan	F€b	mar	Ŋŗι	řa y	Jnt	Jal	Ang	Sep	Cct	NC₽	Ľ€C
1 1 2 1 3 1 4 1 5	0.21F 0.0 0.0 0.0 0.0	0.0 3.3 0.0 0.3	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.06 0.06	0.04 0.02F 0.21F 0.38F 0.24F	0.281 0.0 0.0 0.0 0.0	1.05H 0.10H 0.0 0.0 0.0 T J.66	0.0 0.0 0.0 0.0 1 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
6 1 7 1 8 1 5	0.0 0.071 0.0 0.0	0.0 0.0 0.0 0.0	0_0 0_0 0_0 0_0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 P 0.11F 0.0	0.0 0.0 0.0 T 0.0	0.02F 0.01 0.0 0.02F 0.0	T 0.0 0.0 0.0 0.0 0.0	1.54 1.10 0.37E 0.67	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
1 11 1 12 1 13 1 14 1 15	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.3	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.04E 0.15E 0.02E 0.05E	0.01 0.15 0.25 0.01 1.291	0.61 0.01 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 G.0
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.01 0.02 0.0	0.58 0.0 0.07 0.0 1	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
1 21 1 22 1 23 1 24 1 25	0.36 0.37E 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.02 0.13 0.0 0.0	0.12 0.22 0.44 0.0 T 0.0 T	0.43 0.0 0.08 0.02 0.0	0.0 0.10F 0.0 P 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 1 27 1 28 1 29 1 30 1 31	0.0 0.0 0.0 0.11 0.21F	0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.10F 0.0 0.61 0.10F	0.0 0.0 0.0 0.0 0.0	G.56H G.15E G.0 G.0	0.0 0.0 0.0 1 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
TCTAL STA AV	1.35 0.51	0.0	0.0 0.54	0.0 0.18	0.0 0.16	0.32 0.34	2.17 3.46	3.29 3.02	3.28 1.58	3.86 0.54	0.0	0.C 0.77

Air Temperature: See table for Watersbed 63.001. Gaging: Thiessen weighted averages of 15 raim gages. Station Averages: 13 yr beginning 1965.

197	17	MEAN DAIS	Y FISCHAF	GE (CFS)				1CEES1CE	E, ABIZCK	2 N-15		
Day	Jau	E€b	Mar	Apr	Łay	Jur	Jul	Aug	Sep	Cct	∦C A	Lec
1	0.0	0.0	0.0	0.0	ŋ.O	0.0	0.0	0.0	16.110E	0.0	0.0	0.0
2	0.0	0.9	0.0	0.0	6-0	0.0	0.0	0.0	1.535	0.0	0.0	0.0
â	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
٤	J.0	J. 0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	15.303E	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0E4E	0.0	0.0
8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	U_0	0.0	0.C	0.0
9	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.157	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.3	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0
12	0.3	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
13	0.0	ŭ.0	0.0	0.3	0.9	0.0	0.0	0.0	0.0	0.0	U . 0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.C	0.0	0.0
15	0.0	0.0	0.3	0.0	0.0	0.0	0.0	23.069E	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.949E	J. 0	0.0	u.o	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
22	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.6	0.0	6.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.049E	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.006E	0.0	0.0	0.0
28	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		5.6	0.0		0.0		0.0
BEAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7747	0.5900	0.5021	0.9	0.0
INCHES	0.0	0.0	0.6	0.0	0.0	0.3	0.0	0.097	0.071	0.063	0.0	0.0
VA ALS	0.0	0.0	0.002	0.0	0.0	0.003	0.041	0.104	0.029	0.006	0.0	0.0

Station Averages: 13 yr beginning 1565. Conversion Factor: CPS to IN/LNY, multiply by 0.004026.

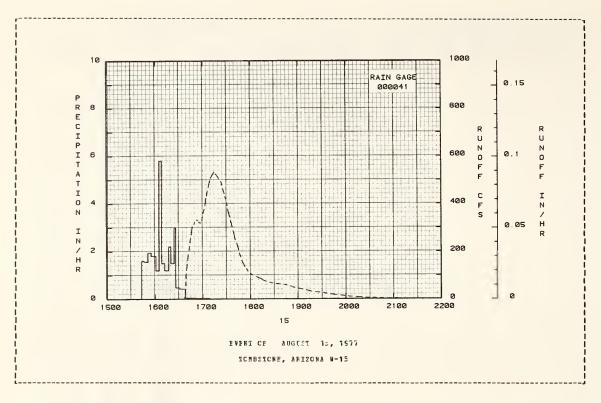
7 SELECTED BONG	OPP EVENT				10	BESIORE,	ARIZCHA V	i - 15	
ANTECEDENT CONDI				INFALL			EURCI		
Tate Raiufall Mc-Day [inches]	Buucff (iuches)	Date Mo-Day		Intensity (iu/br)		Dat∈ #c-Day	Time of Day	Fate cfs)	Acc. (inches)
		E.	VENT CE	AUGOSI 15	. 1977				
RG 000041			EG 000	041					
£-15 0.05	0.0	8-15	1543	0.0	0.0	8-15	1612	0.0	0.0
			1546	1.6000	0.08		16 14	0.280	0.0
			1551	1.5600	0.21		16 17	0.537	0.0000
			1555	1.5500	0.34		1619	1. 152	0.0000
			1601	1.8000	0.52		1625	1.493	0.0000
ATERSHED CONFITIONS:					•				
etative cover: Des	sert		1605	1,2000	0.60		1629	1.680	0.0001
ubs (whitethorn, cr			1608	5.6000	0.89		1634	1.472	0.0001
b, tarkush) cccupy			1612	1.5000	0.59		1636	1.318	0.0001
ea with a crown spre			1617	1. 2000	1.09		1637	5.96€	0.0001
roximately 30% and			1620	2.2000	1.20		1638	13.614	0.0001
derstory of crasses			.020	101000			.030	130011	
s than 1% kasal are			1624	1.5000	1.30		16:39	106.787	0.0003
the area sufferts a			1626	3.0000	1-40		1640	133.405	3000.0
ver (black grama, to			1631	0.4800	1. 44		1642	168.304	0.0015
ie grama, sideoats	rana		1638	0.4286	1.45		1843	206.737	0.0021
curly mesquite) cf			1651	0.0462	1.50		1644	243.718	0.0027
roximately 2% rasal				0.0402			1044	2124110	0.002.
			1799	0.0333	1.51		16 45	256.288	0.0034
				******			1646	263.242	0.0042
							1647	305.428	0.0050
							1649	315.281	0.0667
							1650	323.290	0.0078
							1652	333.456	0.0055
							1654	325.777	0.0113
							1655	323.653	6.0122
							1657	316.872	0.0140
							1659	330.592	0.0158
							1701	388.915	0.0178
							1702	376.531	0.0188
							1703	393.688	0.0159
							1704	423.448	0.0211
							1705	434.550	0.0223

Conversion Factor: CFS to IN/HB, multiply by 0.000168.

7	51	FLECTED BO	NOFF FVENT					1	CHESTORE,	AFIZCEA V	i-15	
Da Da	BIFCE! ate	Bainfall	OITICBS Funcif (inches)	Date	li	FAIN ne Cav	FALL Intersity (in/hr)	Acc.	Tate Mc-Day	Tise of Cav	FE Fate (cfs)	Acc.
							15, 19					
									8-1 5	1706 1709 1710 1714 1716		0.0275 0.0269 0.0347
										1720 1723 1726 1727 1728	452.456	0.0516 0.0529
										1729 1730 1731 1732 1734		0.0564 0.0576 0.0586
										1736 1737 1739 1741 1743	217.673 201.926 277.266 246.911 232.501	0.0633 0.0650 0.0664
										1745 1746 1748 1749 1753	207.476 191.564 176.713 161.706 137.563	0.0656 0.0706 0.0711
											127.866 117.177 106.516 101.477 69.926	0.0742 0.0751 0.0760
										1814 1815 1820 1824 1828	64.726 61.538 73.952 69.801 66.775	0.0791 0.0602 0.6810
										1833 1842 1846 1850 1856	64.472 61.577 56.910 55.256 46.616	0.0842 0.0849 0.0856
										1906 1917 1922 1927 1936	32.133 29.980 28.469	0.0677 0.0668 0.0692 0.0897 0.0903
										1944 1958 2004 2008 2016	19.405 13.545 11.505 9.765 7.850	0.0508 0.0914 0.0518 0.0513 0.0920
										2025 2034 2043 2053 2104	6.192 4.839 3.876 3.122 2.652	0.0921 0.0923 0.0924 0.0925 0.0926
										2126 2139 2157 2212 2232	1.815 1.335 0.722 0.538 0.242	0.0927 0.0928 0.0926 0.0929 0.0929
										2249 2311 2332 2346	0.125 0.046 0.010 0.002	0.0929 0.0929 0.0929 0.0929

2400 0.001 0.0525

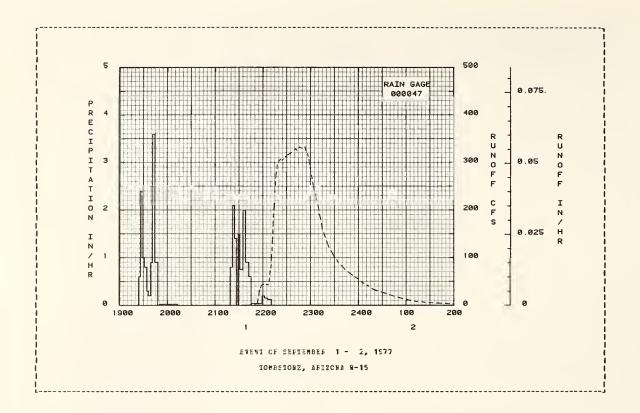
Conversion Factor: CPS to IM/BE, multiply by 0.000166.



7 SELECTED BU					10	BESICSE,	ABIZCEA F	1-15	
ANTECFCENT COND				INFALL			EUNCI	F	
Date Fainfall	Euncff	Dat∈	liu∈	Intersity	Acc.	₽ate	Tim∈	Fat∈	Acc.
Mc-Day (irches)	(inches)	∄o-Day	of Cay	(in/br)	(inches)	Bc-Day	of Cay	(cfs)	(inch∈s)
		EVE	NI OF SEP	IEBEFB 1 -	2, 1977				
EG 000047			FG 000	147					
5-1 0.0	0.0	9- 1	1924	0.0	0.0	9-1	2125	0.0	0.0
			1926	0.6000	0.02		2127	0-002	0.0
			1928	2.4000	0.10		2129	0.022	0.0
			1931	1.0000	0.15		2130	0.059	0.0
			1934	0.6000	0.19		2132	0.120	0.0
ATFFSBED CCBLITICN:			1234	0.6000	0.15		2132	0.120	0.0
getative cover: De			1636	0.3000	0.20		2425	0.526	0.0
			1936	0.3003			2135		
rnks (whitethern,			1939	0.2300	0.21		2137	0.549	0-0
sh, tartush) cccup			1941	0.5000	0.24		2142	0.549	0.0000
ea with a crown spi			1944	3.6000	0.42		2143	1.000	0.0000
proximately 30% and			1946	0.9000	0.45		2146	2.513	0.0000
derstory of grasse:									
ss than 1% tasal an			1948	0.9000	0.48		2149	3.164	0.0000
the area sufferts	a grass		1950	0.0	0.48		2152	5.215	0.0001
ver (black grama,			2013	0.0261	0.49		2153	4.800	0.0001
ue grama, sideoats			2119	0.0	0.45		2154	14.241	0.0001
d curly mesquite)			2122	0.6000	0.53		2155	24.855	0.0002
prominately 2% tass							2.00		
fire termination of the terminat			2124	2.1000	0.60		2156	32.801	0.0002
			2127	1.4000	0.67		2157	36.612	0.0003
			2129	0.0	0.67		2158	42.056	0.0004
			2125	1.5000	0.72		2159	43.747	0.0004
			2131	0.7500	0.77		2201	44.406	0.0006
			2125	0.7:00	0.77		220 1	44.400	0.0000
			2138	2-0000	0.67		2204	44.274	0.0012
			2142	0.5000	0.93		2207	43.223	0.0016
			2145	0.6000	0.56		2208	50.163	0.0017
			2159	9.0429	0.57		2209	72.902	0.0019
			2202	0.2000	0.56		2210	76.419	0.0021
			2202	0.2000	0.30		2210	70.413	0.0021
			2236	0.1500	0.55		2211	107.216	0.0023
			2211	0.1200	1.00		2212	136.347	0.0027
			' '	1200			2213	177.854	0.0031
							2214	207-476	0.0036
							22 16	271.037	0.0050
							2216	2/1.03/	0.0050

Conversion Factor: CFS to IN/HF, multiply by 0.000168.

				F EVENT			EATT		EESTCRE,			
1	ANTECE Dat∈ Ec-Day	Fair (irc	fall bes)	FDDcff (inches)	Date to-Day	Tise of Day	Intersity (in/br)	Acc. (inches)	fate Mc-fay	Time of Day	Fate (cf≤)	Acc. (incles)
						SEFTEBEEF						
										2218 2220 2222	279.885 295.367 303.479 307.365 305.039	6.6682 u.0099
										2228 2229 223 0	307.779 513.298 511.321 315.281 320.875	C.0168
										2243 2246 2249	325.3 0 9 332.838	0.0313
										2256 2257 2259	312.902	0.0405 0.0414 0.0431
										2307 2308 2310	219.627	0.0469 0.0495 0.0507
										2315 2317 2321	149,508	0.0533 0.0541 0.0557
										2326	114.250 101.268 54.856 85.537	0.0574 0.0586
										235 0 2353	75.188 85.947 82.894 58.910 54.882	0.0632 0.0837
									ç- 2	7		0.0658
										24 25 35 41 53	27.588 24.512 21.301	0.0876 0.0880 0.0885 0.0686 0.0684
										56 101 106 111 115	11.889	0.0658 0.0657 0.0656 0.0700 0.0701
										125 140 150 204 211	5.388 4.305 3.841 3.031 2.737	0.0704 0.0705 0.0708 0.0708 0.0708
										216 226 234 240 248	2.275 1.493 1.152 0.852 0.745	0.0709 0.0709 0.0709 0.0710 0.0710
										257 306 319 351 405	0.858 0.558 0.308 0.056 0.020	0.0710 0.0710 0.0710 0.0711 0.0711
										417 440 506	0.005 0.002 0.0	0.0711 0.0711 0.0711



63.015- 6

TOMESTORE, ARIZONA WATERSHED W-103

LCCATICA: Cochise County; 2 miles north of Tombstone; Walnut Gulch, San Fedro Biver, Gila Fiver, Colorado Eiver Fasia Iat. 31 deg. 44 min. 30 sec. 8.; Long. 110 deg. 03 min. 15 sec. 8.

ABEA: 9.10 acres

5.0	FIRE	Y ERECIE	ITATICE	AET FUNC	OFF (INCE)	S)		10	FESICNE,	FFIZCNA	WATERSE	EE 9-1	03		
		Jan	P∈b	far	Agr	žay	Jun	Jul	Aug	S€ţ	Oct	y c A	E∈c		Arrual
1977	P Q	1.64	0 -0	0.0 0.0	9.0 0.9	0.0	0.60 0.019	3.24 0.169	3.21 3.341	4.32 1.453	2.50 0.022	0.0	0.0		15.91
SIA AV	P C	0.48	0.42	0.48	0.18	0.18	0.32	3.37 0.326	2.55 0.259	1.98	0.66	0.27	0.7		11.67
	AND	 ixad	 Eub				axious	Volume f	CFF (inch	 ∈d Tim∈	 Int∈r v a	1			Page
		Discb Dat∈		1 Boul		Nol.			12 Hours at∈ Vol.		Vcl.		vcl.		Cays Vol.
1977		9-2€	1.355	9-26 0.	652 9-26	1.030	9-26	1.223 9	-26 1.22	3 5-25	1.223	9-24	1.223	9-18	1. 223
						BAXIBOBS	FOR EF	FIGE CP	FECCED						
						1.615	7-17	1.615 7	-17 1.61	5 7-16	1.615	7-15	1.615		

Watershed Conditions: Regetative cover: Entire area dominated by desert shruhs (whitethorm, creosotehush and tarbush) with crown spread of about 25% and an understory of grasses with about 0.6% basal cover.

Haps: Topographic, Geologic, and Regetation - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pages 65.1-3, 63.1-4, 63.1-5.

Erecipitation: Records began January 1965. Monthly totals are values from rain gage No. 63. STA AV values are based on 13 yr beginning 1965.

Ennoff: Records began January 1965. STA AV values are based on 13 yr beginning 1965.

Long-Term Frecipitation: Wational Weather Service records at Tombstore, Arizona.

19	77 C.I	ILY PBEC	IEITATICH	(INCHES)			108851	CNE, ABIZ	CBA WATERS	BEC 9-10.	3	
. Cay	Jan	F€b	Mar	Apr	∦ay .	Jnr	Jul	Aug	S€ŗ	Cct	bc▼	D∈c
1	0.26	0.0	0.0	0.0	0.0	0.0	0.03	0.45	1.09	0.0	0.0	0.0
2	0.0	0.0	0.)	0.0	0.0	0.0	0.0	0.01	0.14	0.0	0.0	0-0
1 3	0.0	0.0	0.0	9.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
1 5	0.0	0.0	0.0	0.0	0.0	0.12	0.46	0.0	0-06	0.0	0.0	0.0
1 =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.40	0.0	0.0	0.0
į 6	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.35	0.0	0.69	0.0	0.0
1 7	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.01	0.0	0.54	0.0	0.0
8	0-046	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.26	0.0	0.0
1 5	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0
1 10	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
i 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0
1 12	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.21	0.0	0.0	0.0	0.0
1.3	0.0	0_0	0.0	0.0	0.0	0.0	0.45	0.03	0.0	0.04	0.0	0.0
1 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0-0	0.0	0.06	0.96	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0 - 0
1 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
1 19	0.0	0.0	0.3	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
1 20	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
i 21	0.28	0.0	0.3	0.0	0.0	0.04	0.26	0.19	0.0	0.0	0.0	0.0
22	0.49	0.0	0.0	0.0	0_0	0.44	0.29	0.0	0.06	0.0	0 - 0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.08	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0
1 25	0.04	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.23	0.0	0.0	0 - 0
1 27	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	G.07B	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0
1 29	0.26		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0
1 30	0.23		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
] 31 	0.0		0.0		0.0		0.53	0.18		0.0		0.0
TCTAL	1-64	0.0	0.0	0.0	0.0	0.60	3.24	3.21	4.32	2.90	0.0	0.0
SIA AV	0.40	0.42	0.48	0.18	0.18	0.32	3.37	2.55	1.98	0.66	0.27	0.79

Air Temperature: See table for Watershed 63.001. Gaging: Data are walues from rain gage No. 83. Station Averages: 13 yr beginning 1965.

Cooperative Research Eroject of USDA and Arizona Agricultural Experiment Station

197	7	MEAN DAIL	Y LISCHAL	GE (CES)			ICHESIC	CNE, AFIZO	INA WATES	SHED 6-10:	3	
Day	Jan	P∈b	Bar	AFI	Bay	Jur	Jul	Aug	Ser	Cct	80¥	D∈c
1	0.0	0.3	0.3	0.0	9.0	6.6	3.0	0.01SE	U.068E	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	C.0	0.6	0.0	0.0	0.0
5	0.3	0.0	0.0	0.3	3.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0
€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.006	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.C	0.0	0.0	9.0	0.0
8	0.0	0.0	0.0	0.0	3.0	0.0	0_0	0.0	0.0	0.0	0.0	0.0
Ś	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.3	0.0	0.0	0.018E	0.0	0.0	0.0	0.3	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	U-0	0.0	9.9	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.100	0 - 0	0.0	0.0	0.0
16	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.6	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	U.0	0.0	0.0	3.5	0.007E	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.020E	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	0-0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.468E	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.)	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.9		0.0		0.0		0.02EE	9.0		0.0		0.0
EAN	0.0	0.0	0.C	0.0	0.0	0.0002		C.0042	0.0185	0.0003	0.0	0.0
NCHES	0.0	0.3	0.0	0.0	0.0	0.019	0.169	0.341	1.453	0.022	0.0	0.0
V & A I	0.0	0.0	0.0	0.0	0.0	0.011	0.326	0.259	0.290	0.028	0.0	0.00

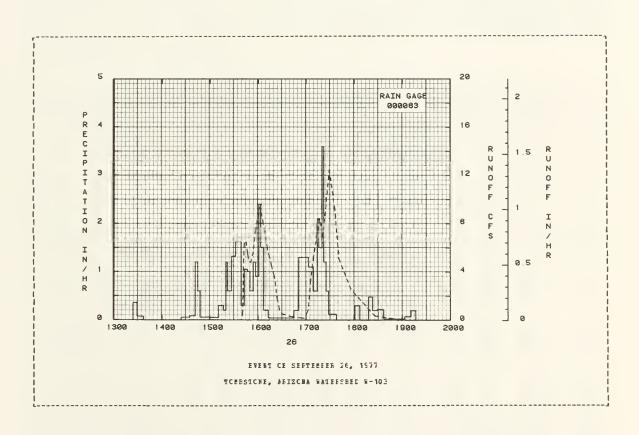
Station Averages: 13 yr beginning 1965. Conversion Eactor: CPS to IN/DAY, multiply by 2.615566.

							# ##12CB	PATERSEE		
ANTECEDEBI					INEALI			FUNCE		
	nfall ches)	Euncff (inches)			Intensity (in/bt)				Fate (cfs)	Acc. (inches)
			E.	VENT CE SI	EPIEBBEF 26	. 1977				
FG 00	0002			FG 030	262	•				
9-26	0.11	0.0	9-26	1324	0.0	0.0	9-26	1525	0.0	0.0
3-20	0.11	0.0	5-20	1329	0.3600	0.03	3-20	1531	0.005	0.0000
				1325	0.3600	0.03		1537	0.003	0.0002
				1424	0.0755	0.04		1540	0.036	0.0002
				1435	0.0545	0.05		1541	0.525	0.0009
WATERSHED CON	TTTORS-			1435	9.0.45	0.65		1341	9.525	3.0003
regetative cove				1942	0.0657	0.06		1542	5.060	0.0059
regetative cove				1445	1.2000	0.12		1543	£.370	0.0163
hrnts (whitet)				1448	0.6000	0.12		1545	6.467	0.0357
usb, and tark				1455	0.0545	0.16		1547	5.620	0.0616
cicwn spread				1511	0.0500	0.17		1548	5.060	0.0713
nd an underst					0.000			13.0	3.00	3.0
ith about 0.65				1517	0.3000	0.20		1551	4.729	0.0961
				1520	0.2030	0.21		1554	5.620	0.1263
				1522	1.2000	0.25		1557	7.362	0.1616
				1527	0.6000	0.30		1600	€.846	0.2058
				1532	1.3200	G-41		1602	5.251	0.2367
				45.56	4 6005	0.60		1602	0.430	0.0555
				1539	1.6286	0.60		1603	9.179	0.2555
				1543	0.3000	0.62		1606	6.156	0.3028
				1547	1.0500	0.69		1609	7.155	0.3447
				1550	1.0000	0.74		1612	5.804	0.3800
				1554	0.6000	0.7€		1615	5.060	0.4057
				1557	1.2000	0.64		1618	4.222	0.4350
				1601	0.5000	0.90		1621	3.427	0.4558
				1603	2.4000	0.56		1624	1.747	0.4655
				1607	1.5000	1.08		1627	0.820	0.4769
				1613	0.2000	1.10		1630	0.525	0.4606
				1845	0.0375	1.12		1641	0.275	0.4666
				1651	0.2000	1.14		1658	0-144	0.4950
				1657	1.3000	1.27		1703	0.8€€	0-4956
				1703	1.3000	1.40		1706	3.427	0.5113
				1705	1.1000	1.51		1709	5.080	0.5345

Conversion Eactor: CFS to IN/BE, anltiply by 0.108982.

7	SELECTED BUNG	OFE EVENT				TCFESTONI	. BE17CB	A WATEESBE	L W-103	
ABT	ECEDENT CONDI	TICKS		EAI				BUNCE		
rat(Funcff			Intersity (in/br)					Acc. (inches)
			EVENI	CE SEITEBI	EFE 26, 197	7 (CCN11)	VOEL)			
			9-26	1714	0.6000	1.56	9-26	1717	8.410	0.6325
				1716	2.1000	1.63		1721	6.859	0.6860
				1720	1.5000	1.73		1729	12.436	0.8282
				1722	3.6000	1.85		1736	9.067	0.9649
				1725	1.2000	1.91		1741	5.0 60	1.0291
				1726	0.6000	1.54		1756	2.547	1.1330
				1738	0.1200	1.56		1626	0.329	1.2114
				1601	0.0	1.96		1906	0.0	1.2233
				1807	0.3000	1.99				
				1818	0.0	1.99				
				1623	0.4600	2.93				
				1829	0.2000	2.05				
				1637	0.2250	2.0€				
				1903	0.0231	2.09				
				1911	0.0750	2.10				
				1917	0.2000	2.12				

Conversion Eactor: CFS to IN/BF, Bultiply by 0.106562.



63.103- 3

SANTA BOSA, NEW MEXICO WATERSHED W-1

ICCATION: Guadalure and Quay Counties; 30 miles east of Sarta Rosa; Alamogordo Creek, Tributary of Fecos River. Lat. 34 deg. 51 min. 53 sec. N.; Long. 104 deg. 12 min. 23 sec. N.

MC	NTHI	Y PRECIE	PITATION	AND BUNC	FF (INCE)	s)			INTA FCSA	, NEW M	EXICC WA	TERSHED	§−1	
		Jan	P∈b	Mar	Apr	Eау	Jnn	Jul	Aug.	S∈ŗ	Oct	Bcv	£€C	Artnal
1977	P Q	0.18 0.0	⊍.20 ∂.0	0.25 0.0	2.00 0.0	0.45 0.0	0.58	2.32 0.000	4.17 6.052	0-54 0-0	0.46 0.0	0.62	0.0 0.0	12.61 0.052
SIA AV	P Q	0.28	0.31 0.0	0.45	0.77 8.0	0.86 0.011	1.22 0.007	3.50 0.083	2.89 0.056	1.51 6.015	1.28 0.003	0.45	0.23 0.0	13.78 0.174
	ANN	UAL MAKI		CHAFGE (i	n/hr) ANI				CIF (incl				I & T E B VAL	s
		Disch Dat∈		1 Bour Dat∈ Vo		Bours Vol.			12 Honrs Cat∈ Vol.		Day Vcl.	2 Da Dat∈		€ Leys ate Vol.
1977		8-17	0.511	8-17 6.	⊎1 მ 6−1°	0.015	£-17	0.920 8	-17 0.02	1 8-17	0.022	8-20	0.025 e	-16 0.047
						BAXIBUSS	FOR PE	FIOD OF	FECCPD					
		7-20 1972	0.099	7-20 0. 1972	367 7-28 1972	0.147	7-20 1972		7-20 0.35 1972	0 7-20 1972	0.359	7-18 1972		-15 0.509 972

Ratershed Conditions: Grazing land, about 75% of the area is grassland, vegetation consisting of line grama, galleta, buffelo and ring muhly. Remaining 25% of area is rinon, junifer, and various shruhs, with some grasses interspersed.

Maps: lorgoraphical - Hydrologic Data for Experimental Agricultural Vatersheds in the United States, 1569, USDA Misc. Fub. 1370, page 64.001-3. Frecipitation: Fecords began 1555. Monthly totals are Thiesser weighted averages of 64 rain gages. SIA AV values are tased on 10 yr beginning 1568. Funoff: Records began 1955. SIA AV values tased on 10 yr beginning 1568. Long-Term Precipitation: National Weather Service Fecords at Santa Fosa, New Mexico. Notes: Previously published data are being reevaluated.

19	77 E	AIII	AIR T	EMPE	BATUE	E (D	EGEEE	S F)					5	AKIA	5C52	, NE	W MEX	icc	SATES	SBEI	£−1			
Сау		an mir	rax		zez xez		Max max		Ma max		Ju max		Jr		rsa 14		Se		Cc max		x s n		x su	c min
1		18	44			28	5.6	27	60	54	86	5€	60	62	166	60		61	€5	50		38	51	29
2	26 40		42 34	23 15	5 1 4 4	28 17	60 42	33 26	82 80	52 53	94 90	54 54	94 9 6	5 E	8 6 9 2	62 56	84 78	62 64	72 65	44 50	5 € 6 €	20 31	4 E	32 44
4		32	34	13	45	16	56	32	74			60	93	66	100	69	80	60		52		30	74	42
5	45		32	14	42	25	€4	24	78	44		60	90	55	8.8	63	8€	60	74	60	67		€5	35
6	23		29	11		15	70	30	76		88	58	86	€0		59	86	56	88	52		35	56	22
7	40	14	53	24	52	21	72	3.9	75	40	86	52	94	58	67	59	86	52	62	57	74	42	42	26
8	4 € 2 €		48 56	16 16	66 72	32 37	77 £2	42	82 82	56 54	6€ 8.8	58 59	92 67	62 57	8 6	61 63	86 86	56 60	76 68	4E 47	4 E 50	29 28	6 S	46 11
10	34		58	22	€ €	36	82	46	85	50	90	60	84	64	100	€0	74	51	64	47	41	20	34	17
11	36		55	30	52	30	78	52	76	48	94	64	96	66	€€	5€	85	60	76	33	5€	28	44	15
12	50		59	34	55	20	74	46	7€	50	96	52	92	€4	64	58	85	53	54	28	62	27	76	26
13	34		56	23	62	26	74	47	70	50	92	62	96	66	0.3	6.5	82	52	63	30	64	33	66	29
14 15	47 44		66 46	33 16	74 70	31 24	64 52	43	65 68	55 46	98	62 63	92 9 0	64 64	86 82	63 64	72 7€	45 54	74 72	37 39	68 66	25 34	59 50	22
15	44						52	43				-		64	62	64								
16	54		50	20	62	30	66	43	76			62	3.9	64	33	€4	94	50	59	36	66	28	56	3.6
17	34 54		6 1 7 0	27 30	4 E 5 7	38 19	60 62	46	79 80	44 50	99 102	60 62	9 0 92	£4 £6	9 G 8 4	60 64	83 82	52 48	76 78	36 39	69 52	30 32	44 52	20 26
19	45		73	32	59	22	74	40	80	46	96	63	92	65	88	66	78	43	82	36		36	έū	38
20	56		54	24	59	26	62	46	75	44	97	70	94	€4	82	66	84	59	76	36	64	46	50	16
21	52	26	66	22	€4	26	48	35	76	40	92	55	96	70	83	60	89	60	77	37	62	15	36	5
22	46		72	27	53	27	56	34		44	84	56	86	60	84	61	84	46	74	48	44	26	44	20
23		30	54	31	64	26 32	70 73	40	63 66	56 54	88	62 58	86 88	60 58	88 90	60 64	83 86	5€ 44	58 68	34 32	66 68	34 24	56 58	38 44
24 25	43 46		52 64	28 34	69 70	28	70	46 48	83	60	83 60	55	90	63	88	64	36	52	77	43	58	33	56	18
26	45	18	38	14	72	42	72	92	72	54	86	56	94	66	90	64	86	48	76	35	57	2€	52	22
27	56		38	25	59	46	72	44	78	42	96	64	95	62	52	61	90	54	77	46	69	39	42	28
28	5.4		43	14	48	34	79	50	86	54	95	62	90	€0	8€	€ 0	92	56	74	38	50	28	42	36
29		14			53	31	75	4 €		50		61	96	60	78	64	86	47		42	54	24	92	28
30 31	40 36				48 60	21 28	78	4 6	67 92	54 62	96	60	95 98	56 66	8 0 82	60 62	89	51	76 68	54 38	52	24	56 54	24 30
AV.	44	 18	49	22	57	28	 65	46	79		85	 57	91	62	E7	62	 £1	52	72	42	59	25	53	27
MEAB		9.9		. 4		. 6		. 6		.5		. 1		.6		.5		.5		-0	44	-2	40	. 4
STA AV	48	21	50	25	5 9	29	€6	3.5	78	47	87	55	88	61	8.6	60	77	51	70	39	57	26	53	23

Station Averages: 3 yr Leginning 1975.

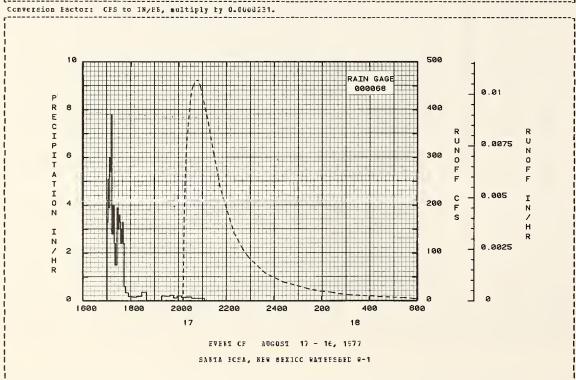
1977	4 1 (ILY PRECI	FITETICE	(INCHES)			4 7 7 4 2	ECSA, BEW	PEXICO 6	ATERSHEL	s - 1	
Đay	Jan	₽€b	Bar	Apr	May	Jun	Jul	Ang	Sep	Cct	Nc v	Dec
1 2 3 4 4	0.151 0.0 0.0 0.0 0.0	0.0 9.08E 0.0 1 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.025 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.06E 0.05E 0.0 0.27E 0.0	0.0 0.0 0.0 0.0 F	0.26E 0.09E 0.0 0.0	0.0 0.0 0.0 0.0	0-0 0-6 0-0 0-0	0 - 0 0 - 0 0 - 0 0 - 0
6 7 8 9 10	0.0 0.0 0.018 0.018 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.01E 0.01	0.0 0.0 0.0 0.0	0.0 0.01 1.15E 0.01E	0.0 0.0 0.0 0.0 0.631	0.0 0.0 0.0 0.0	0.45E 0.0 0.5 0.0	0.0 0.44E 0.67E 0.0	0.0 0.0 0.0 9.0
 11 12 13 14	0.0 0.0 0.0 0.0	0.01E 0.0 3.0 0.0	0.0 0.0 0.0 0.0 0.3	0.0 0.01 0.10F 0.57F 0.35K	0.01 0.40E 0.01H 0.01	0.0 0.0 0.0 0.0	0.0 1.0 1.0 1.0 0.0	0.57E 0.0 0.65E 0.07E 0.0	0.01E 0.12E 0.2EE 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 6.0	0.0 0.0 0.0
16 17 16 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.23F 0.0 T 0.0 0.46F 0.17	0.0 0.0 0.3 0.0	0.0 3.0 0.0 0.0 0.24E	0.0 0.0 0.0 0.0	0.02 0.82E 0.0 T 0.0 0.59E	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.6 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.0 0.0 1 0.0 6.6	0.9 0.0 0.0 0.0 0.0	0.32P 0.0 0.3 C.0 0.0	0.06 0.0 0.0 0.01E 0.02E	0.0 9.0 0.3E 0.01 10.0	0.05E 0.05E 0.02E 0.36E 0.0	0.35E 0.35E 0.0 0.0	0.40E 0.26E 0.0 0.0	0.0 0.10F 0.04E 0.0	0.0 F 0.01F 0.0 0.0	0.0 0.0 0.0 0.0	0-0 0-0 0-0 0-0
26 27 28 29 30 31	C.0 0.0 0.0 0.0 0.0	0.03E 0.0 0.0	0.03B 0.14E 0.02E 0.02E 0.0	0.0 0.0 9.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.03 0.28E 0.0	0.05E 0.05E 0.3 0.14E 0.0	0.0 0.0 0.0 0.03E 0.03E	0.0 0.048 0.0 1 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.11B	0.0 0.0 1 0.0 0.0 0.0
TCTAL STA AV	0.18 0.28	0.20	0.25 0.45	2.00 0.77	0.49 0.86	0.98 1.22	2.32 3.50	4.17 2.89	0.94 1.51	0.46 1.28	0.62 0.49	0.0 0.23

Caging: Thiesser weighted averages from 64 rain gages. Station Averages: 10 yr beginning 1968.

197	7	BEAN DAIL	T LISCHA	RGE (CFS)			SANTA	BOSA, NE	BEXICC	SATIFSHEC	¥-1	
Cay	Jan	Peb	ēa:	Arr	tay	Jur	Jnl	Ang	2€₽	Cct	N C V	lec
1	0.0	0.0	0.0	0.0	0.0	0.C	0.0	0.0	0.0	0.0	0.0	C-0
2	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	C - O	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0 - C	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C.0	0.0	0.0	0.6	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.064	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0	G.0	0.0	0.0	0.0
10	0.0	0.6	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.925	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.170	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	U.C	0.002	0.007	0.0	0.6	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.951	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0_0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.963	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.6	5.835	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.498	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.663	V U	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.109	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.254	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0_0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0	3.0	0.0		0.0
EFAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0024	3.0472	0.0002	0.0	0.0	0.0
INCHES	0.0	0.9	0.0	0.0	0.0	0.0	0.000	0.052	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.011		0.083	0.056			0.0	0.0

Station Averages: 10 yr beginning 1968.
Conversion Factor: CFS to IM/DAT, multiply by 0.000555.

	NI CONDIT				INFALL			FUNCI		
Dat∈	Fainfall	Funcff	Date	Time	Intersity (in/tr)	Acc.	Dat∈	Time	Fat∈	Acc.
Mo-Day	(irches)	(inches)	во-рау 	or tay	(1D/EL)	(1nches)	ео-рау	or Lay	(cfs)	(inches)
			# W #	KT CF &	DG O ST 17 -	16 1977				
			2.1			10, 1377				
€-17	0.0068	0.0	8-17	FG 000:	0.0	0.0	6-17	2012	0.0	0.0
6-17	0.0	0.0	0-17	1702	3.3000		C-17	2012	175.677	0.0601
				1704	5.0969	0.28		2019	321.074	0.0005
				1706	3.9000	5-41		20 29	419.665	0.0030
				1708	5.9967	0.61		2034	445.353	0.0028
TERSHED C	CKRITIONS:									
zing land	, about 75	% cf		1710	5.4013	0.79		2039	455.857	6.0037
	grassland,			1712	7.7983	1.05		2044	461.656	0.0046
	crsisting			1715	2.8000	1.19		2.149	461.163	0.0054
ma, galle	ta, bnffal	o and		1718	4.0000	1.39		2054	447.567	0.0063
	Femaining			1721	2.4000	1.51		2114	373.249	0.0095
	inon, jnni									
	shints, wi			1725	1.5000	1.61		2129	301.849	0.0114
e grasses	irtersper	sed.		1727	3.9000	1-74		2139	261.460	0.0125
				1730	3.0000	1.69		2144	237.853	0.0130
				1752	3.6000	2.01		2219	142.737	0.0156
				1734	3.3000	2.12		2244	104.962	0.0168
				1737	2.4000	2.24		2259	66.561	0.0173
				1739	3.0000	2.34		2339	57.6EC	0.0185
				1741	3.3000	2.45	6-16		39.695	0.0189
				1743	2.4000	2.53		129	25.050	0.0197
				1747	0.€000	2.57		159	20.570	0.0200
				1754	0.3429	2.61		234	17.024	0.0202
				1804	0.1600	2.64		244	14.997	0.0203
				1815	0.1636	2.67		309	18.116	0.0204
				1627	0-2000	2.71		424	9.20€	0.0206
				1840	0.3692	2.79		534	6.565	0.0210
				1918	0.0158	2.80		714	4.443	0.0212
				1926	0.2250	2.83		844		
				1938	0.2000	2.87		949	2.5€€	0.0214
				1948	0.2400	2.51				
				1957	0.1333	2.93				
				2008	0.2182	2.97				
				2020	0.1500	3.00				
				2034	0.1714	3.04				
				2050 2106	0.1125 0.1125	3.07 3.10				
				2141	0.0171	3.11				
				2220	0.0154	3.12				



64.001- 3

SERRCICS, IDABC WATERSEED W-1 (036068)

LCCATION: Ownhee County, Idaho; 34 miles south of Rampa; north flowing tritutary to the Suake River. lat. 43 deg. 15 min. 45 sec. R.; Iong. 116 deg. 45 mir. 10 sec. R.

ABEA: 57707.00 acres 90.20 sg. miles

EC	CNTHI	PFECIF	ITAILCE	AND FO	ROFF	INCEES)		F.	EYNCIC	S. IC?	HC WAT	EBSEEC	9-1 (0	38068)		
		Jan	F∈b	Ear	A	r	Bay	Jan	Jnl	λεg		e p	Cct	Bo ₩	Ē€0	:	Prine1
1977	F Q	0.75	1.23 0.)36	1.35		.39 .032	2.43 0.752	1.55	0.57	0.8		1.15 1.003	0.35	2.72 9.01			16.92 0.375
SIA AV	F Q	2.63 0.430	1.53	2-02			0.56	1.59	0.49 0.050			0.93 0.015	1.54 0.028	2.00 0.05		50 150	16.28 3.042
	ARRO	DAL BANI. Bani	 BUB					azimum	Vclume :	for Se	 lected	lise	Interva	1			
) # # A		nge	1 B		2 E		axinum 6 Rc		for Se	lected urs	l li∎∈ 1	Interva	1 2 C	a ys	8	tays Vol.
1577) # # A	Baxi Disch	arge Rate	1 Bo	Vcl.	2 E Date E-11	dcurs Vol.	aximum 6 Hc Date 6-11	Volume i	for Se 12 Bc Date	lected urs Vcl.	l Time 1 Cate	Interva Day Vcl.	2 C Cate	ays Vcl.	8 Date	₹ol.

15	77 CAILY	AIR TERR	EFATOFE (ES, ICAHO	WATEFS81	C %-1 (03	606 8)]
Day	Jan wax mir	Peb max min	Mar max min	Apr	Fay	Jur Far sin	Jt1	Aug mar min	Ser war min	Cct max min	Sex sin	Cec
1 1 2 1 3 1 4	29 10 33 17 33 22 30 19	40 20 38 17 37 11 39 9	35 28 35 28 41 27	42 29 42 26 54 30 66 30 68 30	80 43 81 44 59 37 50 34 46 32	£7 51 57 3£ 89 44 £2 £0 91 50	88 45 74 56 70 53 69 46 70 38	\$7 51 93 56 55 66 90 60 65 59	72 38 84 40 82 50 88 47 82 53	56 29 •61 30 61 33 61 29	60 34 60 27 52 20 58 31 47 31	50 34 56 46 55 45 45 26
6 7 8 9	23 -4 15 -5 25 -8 25 0	40 16 44 15 43 20 45 25 54 23	55 40 46 30	68 40 74 33 74 36 50 32	43 32 56 32 56 30 56 36	\$5 E4 83 E3 77 60 6E 51 63 53	67 41 78 40 88 47 78 47 76 44	64 53 79 56 62 54 66 51	84 50 91 54 70 43 75 36 82 39	67 39 57 26 62 27 60 33	45 36 50 28 38 19 48 20 58 28	55 26 50 23 46 21 41 20 51 25
1 11 1 12 1 13 1 14 1 15	23 10 37 10 27 24 43 29 43 30	51 27 57 24 54 31 52 24 54 22	45 19 53 24 39 20 37 18	58 26 83 31 53 34 50 25 83 23	58 30 66 41 70 40 82 42 50 33	67 50 72 47 86 50 72 52 75 44	85 46 87 53 74 46 84 43 92 45	88 57 92 53 92 56 90 63 90 53	79 44 77 46 80 40 82 52 68 45	60 34 70 30 66 35 70 47 75 36	60 32 58 35 50 30 53 30 58 40	56 35 57 46 55 38 57 38 57 38
1 16 17 18 19 20	45 28 45 28 47 25 43 20 32 15	58 24 59 31 56 24 56 20 68 22	39 22 42 27 44 30	£4 27 52 28 53 22 54 2£ £3 23	45 37 49 36 53 39 61 36 65 34	76 48 78 46 81 52 81 53 73 54	98 57 90 58 90 57 80 55 90 54	93 57 92 55 92 63 91 55 92 64	53 43 89 42 72 44 65 44 56 41	65 39 72 36 73 34 72 40 65 38	46 24 40 20 32 10 27 10 24 -3	40 32 37 32 35 23 35 15 33 10
21 22 23 24 25	32 21 34 15 24 12 22 14 22 18	45 27 38 28 37 18 34 23 36 18	62 23 60 28 45 25	72 38 76 35 80 39 85 38 80 52	71 37 65 45 54 45 55 31 85 32	75 50 81 51 85 55 £7 56 88 57	94 61 86 55 87 54 73 52 81 47	86 67 89 57 88 52 76 53 57 50	59 32 54 28 60 28 59 41 68 42	60 33 64 30 69 35 72 40 78 46	42 18 45 31 42 36 50 36 80 44	35 24 46 22 45 29 45 36 48 28
25 27 28 29 30	25 13 20 12 26 7 24 6 25 5 24 12	34 25 48 25 50 30		85 40 87 28 75 39 72 45 74 91	62 44 55 32 56 28 62 33 76 34 88 45	\$0 56 83 53 85 52 80 52 81 47	84 54 88 53 95 55 80 50 80 50	62 46 60 41 70 46 75 54 69 50 64 38	67 38 76 29 74 47 52 41 53 35	54 32 57 29 60 34 52 39 46 33 46 33	54 34 48 31 50 40 55 31 48 28	32 28 32 29 37 30 47 33 38 30 33 12
AV. BEAN SIA AV	₹0 13 21.€ 37 20	47 22 34.2 45 26	46 25 35.4 48 26	£4 33 48.5 55 29	59 37 47.9 56 35	80 52 68.0 75 47	83 50 66.6 88 52	84 55 69.3 84 51	71 42 58.8 73 43	63 34 49.0 61 33	45 28 36.4 46 27	45 29 37.2 38 23

Station Averages: 15 yr beginning 1983. Botes: Temperature data taken from hygrothermograph record at station 076%55.

Cooperative Besearch Project of OSDA, OSDI, and Idaho Agricultural Experiment Station

Watershed Conditions: Predominantly sagebrosh rangeland, 95%; small stands of forest, 2%; permanent fields of flood irrigated alfalfa, 34.

Mars: Topographic/Hyrologic (revised) - Hydrologic Data for Experimental Agricultoral Watersheds in the United States, 1568, USIA Misc. Fub. 1330, page 68.1-6.

Frecipitation: Fecords began 1563. 'Computed Actual' amounts from rain gage 116151. STA AV values based on 10 yr beginning 1956.

Bunoff: Records began 1563. STA AV values based on 15 yr beginning 1963.
Long-Term Trecipitation: Mational Weather Service records at Eoise, Idaho; 50 miles N.F. of watersted.

1977	, D	AILY PREC	IPITATICN	(INCHES)			FFTKCL	CS, ICAEC	WATERSHE	r 1 (03	6066)	
ray	Jan	₽eb	Mar	AFE	äay	Jun	Jul	Aug	Sep	Cct	NC V	£ec
1 2	0.0	0.2	0-15	0.22	0.15 0.0	0.0	0.02	0.9	0.0	0.0	0.0	0.0 0.06
1 1	0.16	0.0	0.18	0.3	0.25	0.0	0.34	0.0	0.0	0.0	0.13	0.00
4	0.11	0.)	5.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<u> </u>	0.11	0.0	0.0	0.0	9.40	0.0	0.0	0.0	0.0	0.0	0.26	0.0
€	0.0	0.0	0.3	0.0	0.45	0.02	0.0	0.0	0.0	0.0	0.0	0.06
7	0.0	0.0	0.0	0.9	0.09	0.0	0.0	0.03	0.0	0.0	0.0	0.0
8	0.0	0.03	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.04	0.26	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.05	0.38	0.0	0.0	0.0	0.0	0.0	0.69
12	0.0	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	3.0	0.01	0-17	0.0	0.04	0.0	0.0	0-0	0.0	0.06	0.22
14	0.0	0.0	0.01	0.0	0.0 0.12	0.51	0.0	0.0	0.09	0.0	0.04	0.54
12	0.0	0.0	3.0	0.9	0.12	0.3	0.0	0.0	0.0	0.0	0.03	0.69
16	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0
17	0.0	0.0	0.25	0.0	0.02	0.0	0.0	0.0	0.0	0-0	0.0	0.29
18 19	0.0	0.0	0.0	0.0	0.11 0.0	0.08	0.0	0.0	0.0	0.0	0.02	0.07 0.0
20	0.0	0.02	0.03	0.0	0.0	0.17	0.0	0.0	0.10	0.0	0.01	0.0
21	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0
22	0.0	0.17	9.9	0.0	0.15	0.0	0.0€	0.0	0.0	0.0	0.40	0.0€
23	0.0	0.37	0.0	0.0	0.01	0.0	0.0	0-0	0.01	0.0	0.11	0.18
24	0-0	0.05	0.16 0.0	0.0	0.0	0.0	0.11	0-42	0.50	0.0	0.22	0.13
25	3.0	0.72	0.0	0.0	0.01	0.0	0.91	0 - 2 /	0.0	0.0	0.26	0.0
2€	0.0	0.26	0.0	0.0	0.41	0.0	0.0	0 - 17	0.0	0.05	0.26	0.0
27	0.0	0.03	0.07	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0-07	0.02
28 25	0.0	0.03	0.09	0.0	0.0	0.0	0.0	0.0	0.03 0.14	0.0	0.0	0.02
30	0.0		0.00	0.0	0.0	0.0	0.0	0.0	0.14	0.10	0.06	0.10 0.36
31	3.0		0.04		0.0		0.0	0.0	0.02	0.0		0.0
TCTAI	0.75	1.23	1.35	0.25	2.43	1.55	0.57	0.69	1. 15	0.35	2.72	3.54
STA AV	2.83	1.53	2.02	1.48	0.58	1.55	0.49	0.81	0.93	1.54	2.00	2.30

Gaging: Values are 'Actual' amounts from a rair of recording gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. P. Hamon, "Computing Actual Precipitation", Proceedings of WMC-IDHS Symposium, Geilo, Morway, August, 1972. The egnation used is: loge [U/A] = loge (U/S) x 1.80, where U = unshielded catchment, S = shielded catchment, and A = actual arount of precipitation.

Station Averages: 10 yr beginning 1968.

1977	D i	AILY PREC	IFITATICN	(INCHES)			FEYNCL	CS, ICAEC	WATERSHE	C 9-1 (036	068)	
Cay	Jan	F∈b	tar	ytr	tay	Jun	Jnl	Япç	Ş€ F	Cct	FCV	[ec
1	0.0	0.0	0.05	0.10	0.19	0.0	0.02	0.0	0.0	0.0	0.0	0.0
2	0.24	0.0	0.0	0.0	0.0 0.14	0.0	0.30	0.0	0.0	0.0	0.11 0.0	0.07
4	0.06	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.05	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.22	0.0
6	0.0	0.0	0.0	0.0	0.39	0.02	0.0	0.0	0.0	0.0	0.0	0.05
7	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.03	0.0	0.0	0.0	0-0
8	0.0	0.03	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.04	0.26 0.0	0.0	0.11	0.03 0.21	0.03	0.0	0.0	0.0	0.0	0.0 0.0
11	0.0	00	0.0	0.0	0.05	0.30	0.0	0.0	0.0	0.0	0.0	0.86
12	0.0	0.0	0.02	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.01	0.15	0.0	0.03	0.0	0.0	0.0	0.0	0.06	0.22
14	0.0	0.0	0.01	0.0	0.0	0.45	0.0	0.0	0.06	0.0	0.04	0.54
15	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.03	0.65
16	0.0	0.0	0.91	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0
17	0.0	0.0	0.02	0.0	0.02	0.0	0-0	0.0	0.0	0-0	0.0	0.15
18 19	0.0	0.0	0.0	0.0	0.09	0.07 0.01	0.0	0.0	0.0 0.07	0.0	0.01	0.04
20	0.0	0-01	0.02	0.0	0.0	0.16	0.0	0.0	0.08	0.0	0.01	0.0
21	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0
22	0.0	0.08	0.0	0.0	0.11	0.0	0.05	0.0	0.0	0.0	0.31	0.03
23	0.0	0.15	0.0	0.0	0.01	0.0	0.0	0.0	0.01	0.0	0.08	0.11
24	0.0	0.02	0.10	0.0	0.0	0.0	0.09	0.37 0.25	0.47	0.0	0.18 0.21	0.08
25	0.0	0.01	0.0	0.0	0.01	0.0	0.01	0.25	0.0	0.0	0.21	0.0
26	0.0	0.03	0.0	0.0	0.37	0.0	0.0	0.17	0.0	0.05	0.23	0.0
27	0.0	0.01	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.07	0.01
28 29	0.0	0.01	0.05	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0 0.05	0.01
30	0.0		0.01	0.0	0.0	0.0	0.0	0.0	0.14	0.00	0.05	0.03
31	0.0		0.02		0.0		0.0	0.0		0.0		0.0
ICTAL STA AV	0.98	0.64	0.71	0.26	1.93	1.51	0.50	0.62	1.03	0.29	2.08	2.56

Gaging: Values are amounts from unshielded recording gage 116451. Station Averages: Not arrlicable to unshielded rain gage records.

Tay Jan Feb Har AFT Bay Jun Jun A 9 Sep Cct Scv	:)	£06£}	. %−1 (036	WATERSHEI	S, ILAEC	2118611			(INCHES)	FITATICE	ILY PEECI	E à	1977
-	Scv £ec	Ec.A	Cct	Sep	A - 9	fuc	Jur	Bay	AF1	Mar	F∈b	Jan	Lay
\$\begin{array}{cccccccccccccccccccccccccccccccccccc													4
\$\begin{array}{cccccccccccccccccccccccccccccccccccc													-
\$\begin{array}{cccccccccccccccccccccccccccccccccccc													<u>.</u>
7													
\$\begin{array}{cccccccccccccccccccccccccccccccccccc											0.0	0.0	
\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.													
13													
11 3.0 0.9 0.0 0.0 0.05 0.36 0.0 0.0 0.0 0.0 0.0 0.0 1.2 1.2 1.2 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0													
12		0.0	0.0	0.0	0.0	0.0	0.24	3 - 5 4	3.3	J.J	0.0	0.0	13
12	33.0	0.0	0.0	0.0	0.0	0.0	0.36	0.05	0 - 0	0.0	0.0	a_c	11
19 0.0 0.0 0.0 0.0 0.0 0.0 0.12 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.								0.0					
15 0.0 0.0 0.0 0.0 0.0 0.12 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.													
16													
17	0.03 0.69	0.03	0.0	0.0	0.0	3.0	0.0	0.12	0.0	0.0	0.0	0.0	15
16 0.0 0.3 0.9 0.0 0.10 0.07 0.0 0.0 0.0 0.0 0.0 0.0 119 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.								0.0		3.32	0.0	0.0	16
15													
20 3.0 0.01 3.02 0.0 0.0 0.16 0.3 0.0 0.0 0.0 0.01 21 0.0 3.31 0.3 6.0 3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.6 0.59 22 0.3 1.11 0.3 0.5 0.13 5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.57 23 0.0 0.24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.													
21													
22	,	0.01	0.0	0.36	0.0	0.0	U. IC	0.0	0.0	J-82	0.01	J-0	20
25 0.0 0.35 0.15 0.0 0.0 0.0 0.0 0.0 0.37 0.49 0.0 0.22 0.0 0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0						0.0	0.0	0.0	0.0	0.3	J.31	0.0	21
24 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.3													
25 0.0 0.01 0.0 0.01 0.0 0.01 0.25 0.0 0.0 0.23 26 0.0 0.03 0.0 0.0 0.35 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0													
26 0.0 0.03 0.0 0.0 0.3E 0.0 0.0 0.17 0.0 0.05 0.25 27 0.0 0.0 0.05 0.05 0.0 0.0 0.0 0.0 0.0 0													
27 0.0 7.02 0.05 0.0 0.01 0.0 0.0 0.0 0.0 0.0 0.0 2.0 7 26 0.0 0.02 0.06 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3.23 0.0	0.23	0.0	0.0	3.25	0.01	0.0	7.01	3.3	J - U	0.31	3.0	2 -
27 0.0 0.02 0.05 0.0 0.01 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.0 0.0 2.0 0.0 0	0.25 0.0	0.25	C.05	0.0	0.17	0.0	0.0	35.0	0.0	0.0	0.03	0.0	26
29 0.0 0.73 0.0 0.0 0.0 0.0 0.0 0.14 0.08 0.05 50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0											7.02		27
50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0											3.02		
31 0.0 0.03 0.0 0.0 0.0 0.0													
	0.0 0.26 0.0	0.0		0.02			0.0		0.0				
			y.U		U - C			U.O		0.03			ئا
CTAI 0.55 0.85 1.02 0.33 2.14 1.84 0.52 0.62 1.86 0.31 2.42	2.42 3.22	2.42	0.31	1.86	0.62	0.52	144	2.14	0.33	1.02	0.85	0.55	CIAI

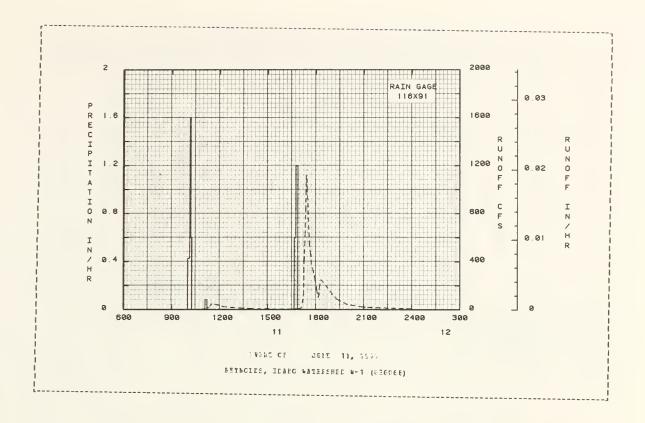
Caging: Values are accunts from shielded recording gage 116591. Station Averages: Not applicable to shielded rain gage records.

197	7	MEAN CAIL	TISCHATO	E (CFS)			FFARCI	E, ITALC	WATEFEBE	K-1 (036	c68)	
Day	Jan	P∈b	Far	Apr	₽ay	Jur	Jul	λυç	Ser	Cct	lev	I∈c
1	2.671	3.127	3.093	2.457	3.531	3.998	1.234	0.257	0.286	0.214	6.351	1.564
2	2.671	3.127	3.126	2.422	3.900	4.102	1.694	0.456	0.233	0.202	0.351	1.564
3	2.671	3. 127	3.144	2.416	3.577	4.615	0.953	0.445	U.192	0.190	0.351	1.644
4	2.715	3.127	3.207	2.505	2.948	3.744	0.691	0.431	0.165	0.202	0.351	2.162
5	2.849	3.127	2.666	3.044	2.76€	3.616	1.654	0.455	0.174	0.202	0.454	1.917
€	2.939	3.127	2.541	3.433	2.665	3.766	0.503	0.447	0.165	0.214	0.456	1.856
7	2.935	3.127	3.174	3.396	3.282	3.743	0.481	0.425	0.172	0.190	0.398	1.376
6	2.985	3. 127	3.127	2.536	3.273	4.055	0.362	0.467	0.173	0.202	0.415	1,211
ç	2.032	3.127	4.036	3.444	4.186	4.063	0.356	0.360	0.165	0.202	0.540	1.350
10	3.032	3.127	3.553	3.226	5.464	3.769	0.376	0.354	ū.177	0.190	0.484	1.360
11	3.032	3. 127	3.22€	2.416	4.534	37.563	0.394	0.369	0.158	0.202	0.449	1.576
12	3.032	3.127	3.179	2.376	4.30€	5.719	0.421	0.272	0.133	0.214	0.449	2.936
13	3.032	3. 127	2.721	2-402	4.333	4.0.3	0.431	0.367	0.143	0.214	0.503	3.325
14	1.032	3.127	2.382	2.341	4.276	3.132	0.750	0.396	0.156	0.190	0.562	13.563
15	3.032	3. 29 1	2.065	2.506	4.254	2.712	0.720	0.123	0.176	0.167	0.560	66.106
16	3.032	3.419	2.126	2.455	3.837	2.745	6.525	0.067	0.242	0.167	0.464	22.977
17	E.032	3.469	2.459	2.381	4.321	2.557	0.513	0.067	0.235	0.167	0.537	15.315
18	3.032	3.364	2.627	2.474	4.805	2.116	0.430	0.086	0.203	0.167	0.603	11.445
15	3.035	2.933	2.699	2.334	4.997	1.842	0.179	0.067	0.150	0.167	0.752	4-961
20	2.919	2.999	2.571	2.293	4.751	2.156	0.153	0.041	0.272	0.167	0.663	7.635
21	2.376	3.648	2.579	2.416	4.501	1.856	0.276	0.034	0.253	0.167	0.788	11.136
22	2.586	3.198	2.583	2.559	4.379	1.522	0.432	0.016	0.214	0.167	1.447	9.196
23	2.513	2.924	2.893	3.076	4.267	1.066	0.476	0.093	0.214	0.233	0.584	5.127
24	2.751	2.698	2.825	2.736	4.082	0.992	0-411	0.237	0.250	0.214	1.334	5.144
25	3.400	2.628	2.487	1.972	4.216	0.944	0.276	0.417	0.226	0.190	2.560	6.371
26	3.034	3.115	2.255	2.286	4.293	0.843	0.262	0.392	0.214	0.202	5.309	7.474
27	3.041	3-011	2.208	2.014	4.523	1.173	0.180	0.321	0.214	0.277	3.375	7.284
28	3.004	3.320	2.625	2.506	4.127	1.238	0.162	0.123	0.214	0-293	2.166	6.639
29	3.153	0.020	2.158	2.348	4.359	1.123	0.205	0.292	0.265	0.293	1.703	6.766
30	3.110		2.262	2.872	4.046	0.905	0.151	0.240	0.251	0.412	1.564	7.566
31	3.252		2.326	2.072	3.922	0.303	0.150	0.266	0.231	0.351	1.504	5.768
BEAR	2.5347	3.1356	2.7631	2.5865	4.0957	3.6375	0.4653	0.2782	0.2072	0.2186	1.0456	6.2562
IBCHES	0.036	0.336	0.035	0.032	0.052	0.047	0.006	0.004	0.003	0.003	0.013	0.106
STA AV	0.430	0.255	0.976	0.575	0.623	0.318	8.050	0.022	0.015	0.028	0.050	0.190

Ctatico Averages: 15 yr beginning 1963. Ccoversion Factor: CPE to IM/DAY, multiply by 0.000413.

AFFEEDRA	CCNDIC	TONE			INFALI			THE	FF	
Date F	ainfall	Funoff	Dat∈	Time	Intersity	Acc.	Date	Time	Fate	Acc.
ec-Cay	(irches)	(inches)	Mo-Day	cf tay	Intersity (in/hr)	(inches)	Mc-Day	cf tay	(cfs)	(inches)
			E	VFKT CP	JUNE 11	, 1977				
T.C.	116891			EG 116		•				
		9.002	6-11	1645	0.0 0.6000 1.2000	11 - 11	6-11	1658	5_996	0.0
				1645	0.6000	0.05		1644	6.051	0.0000
				1652	1.2000	0.19		1704	10.614	0.0001
								17025	15.576	6.0001
								1708	27.557	0.0061
ATEFSHED CO								1715	129.293	0.0002
inderstorm.								1716	354.600	0.0003
Ductr colm.								1717	409.339	6.0064
								1718		0.0005
								1719	544.612	0.0007
								1720	626.527	0.0005
								1721	725.125	0.0001
								1722	836.562	0.0013
								1723	967.728	0.0015
								1724	1119.459	0.0016
								1727	1010-406	0.0028
								17.30	511.975	
								1733	698.257	0.0043
								1735	633.644	0.0047
								1737	524.624	0.0050
								1740	470.566	0.0054
								1744	378.500	0.0059
								1752	30 €. 75 €	0.0067
								1600	223.755	0.0073
								1894	176.622	0.0075
								1806	125.233	
								18 10	100.101	
								1812		0.0078
								1814	192.744	0.0079
								1816	216.597	0.0060
								1820	259.045	0.0083
								1659	159.150	0.0103
								1920	66.065	0.0112
								1958	45.359	0.0119
								20 14	37.82€	0.0121
								2196	22.066	
								2116		0.0126
								2132	20.358	0.0127
								2150	19.110	0.0128
								2232	15.521	0.0130
								2350	13.775	0.0131
								2400	11.362	0.0133

Conversion Factor: CFS to IM/BF, multiply by 0.00001719.



REYNOLDS, IDARC SAIBON CIFER WATERSHIP (046017)

10CMILON: Cwyhee County, Idabo; 34 miles scuth of Nampa; east flowing tributary to Reynolds Creek, Stake River Fasin. Lat. 45 deg. 15 mir. 21 sec. N.; Iong. 116 deg. 45 min. 19 sec. N.

14.05 sg. miles AFFA: 8990.00 acres

НC	RIBLY	PRECIPI	ITATICK	AND FUNCE	F (INCEE	٤)		IFANCIES,	, 312EC S	ALBCN C	SEEK WAS	111211	(046017)	
		.Tan	F∈b	Mar	Afr	Bay	Jun	Jul	an g	S∈F	0ct	No v	Dec	Arrual
1977	E Q	1.25 0.066	1-05 0.067	2.09 0.092	0.23 0.089	2.58 0.088	0.94 0.057	0.65 0.003	0.77 6.003	1.54 0.600	0.36 0.002	3.09 0.054	3.38 6.157	16.38 0.677
STA AV	P Q	2.86 0.642	1.35 9.337	2.25 C.571	1.85 0.485	1.19 0.297	1.54 0.123	0.49 0.074	0.74 0.026	1.19 0.618	1.74 0.045	2.29 0.086	2.41 0.170	20.44
	ANNU			HARGE (in	/hr) ANC								INTERVALS	
		Maxin Cischa Dat∈ N	rge	1 Hour Dat∈ Vol		Potrs Vol.	6 Hc	UIS	cr Select 12 Bouls ate Vcl.	1	Interva Day Vcl.	l 2 Ca Cate		Days € Vol.
1977		6-11	0.011	6-11 0.0	06 6-11	3.00€	6-11	0.010 E	-11 0.01	4 12-15	0.017	12-15	0.026 12-1	1 0.062
						BEXINUES	FCE PF	FICD CF	FECCEL					
		8-23 0 1965		8-23 9.6 1965	44 8-23 1965		1-20 1969		-28 0. 20	e 1-28 1965	0.379	1-28 1965	0.7€€ 1-2 196	

Natershed Conditions: Predominantly seqetrush rangeland, 55%; irrigated pasture and hay crops, 1%.

Bage: Topographic/Bydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965,
05DA Misc. Fub. 1216, p. E6.2-7.

Precipitation: Fecords began 1962. *Computed Actual* amounts from rain gage 023XV1. STA AV values based on
10 yr beginning 1966.

Funoff: Fecords began 1963. STA AV values based on 13 yr beginning 1965.

Long-Term Precipitation: National Weather Service Fecords at Boise, Idabo: 50 miles N.F. of watershed.

ECIPITATION (INCHES)		EFYKC	IIS, JEAR	C SALECN	CHEFR WAY	FFSFFD (C	46017)	
Bar	yŁr	B ay	Jun	Jul	Aug	S∈p	Cct	Nev	Dec
0.14	0.0	36.0	0.0	0.07	0.0	0.0	0.0	0.0	0.03
0.0	0.0	0.0	0.0	0.23	0.0	G - O	0.0	0.04	0.14
0.23	0.0	0.08	0.0	0.05	0.0	0.0	0.0	0.0	0.0
0.0 0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.19	0.0
0.0	0.0	0.38	0.05	0.0	0.0	0.0	0.0	0.0	0.03
2.0	0.0	0.06	0.05	0.0	0.01	0.0	0.0	0.0	0.03
0.33	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.45	0.0	0.44	0.0	0.11	0.0	0.0	0.0	0.0	0.0
0.3	0.0	0.12	0.12	0.0	0.0	9.0	0.0	0.0	0.0
0.0	3.0	0.02	0.43	0.0	0.0	9.0	0.0	0.0	0.36
0.03	0.0	0.0	0.06	0.0	0.0	9.0	0.0	0.0	0.6
3.3	0.33	0.0	0.05	0.0	0.0	0.0	0.0	0.09	0.21
0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.13	0.19
0.0	3.0	0.12	0.0	0.0	0.0	0.3	0.0	0.03	0.43
0.03	0.0	0.15	0.3	0.0	0.0	3.14	0.0	0.0	0.0
0.10	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	1.04
0.03	0.0	0.29	0.0	0.0	0.0	0.3	0.0	0.09	0.02
0.10 0.03	0.0	0.0	0.0	0.0	0.0	0.0 0.22	0.0	0.67	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0
0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.52	0.04
0.06	0.0	0.09	0.0	0.0	0.0	0.10	0.0	0.11	0.23
0.18	0.0	0.0	0.0	0.17	0.29	0.67	0.6	0.29	0.10
0.0	0.0	0.02	0.0	0.0	0.45	0.0	0.02	0.18	0.0
0.0	0.0	0.58	0.0	0.0	0.02	0.0	0-04	0.37	0.0
0.19	0.0	0.03	0.0	0.0	0.0	0.0	0.0	C.20	0.0
0.09	0.0	0.0	0.0	0.0	0.0	0.03	0 . C	0.0	0.0
0.09	0.0	0.0	0.0	0.0	0.0	0.34	0.14	0.05	0.31
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.19
0.22		3.0		0.0	0.0		0.0		0-04
2.00	0.33	2.58	0.94	0.65	0.77	1.54	0.36	3.09	3.38
		2.00 U.33	2.00 U.33 2.58	2.00 U.33 2.56 0.54	2.00 U.33 2.96 0.94 U.65	2.00 U.33 2.96 0.94 U.65 0.77	2.00 U.33 2.96 0.94 U.65 0.77 1.54	2.00 0.33 2.56 0.54 0.65 0.77 1.54 0.36	2.00 U.33 2.56 0.54 U.65 0.77 1.54 0.36 3.09

Air Temperature: See table for Watershed 66.001.
Gaging: Values are "Actual" amounts from a pair of recording gages (shielded and nushielded). 'Actual' amounts were computed as per relationship developed by W. B. Haucn, "Computing Actual Precipitation", Proceedings WECTIDES Symposium, Geilo, Bornay, August, 1972. The equation used is: loge (U/A) = loge (U/S) x 1.60, where U = nushielded catchment, S = shielded catchment, and A = actual amount of precipitation.
Station Averages: 10 yr beginning 1968.

Cooperative Research Project of USDA and OSCI and IJaho Agricultural Experiment Station

1977	Ε.	AILY PEEC	IFITATICH	(INCHES)		5ET	CIDE, IE	BC SPIEC	N CEEER W.	TEFCRED	(046917)	
Eay	Jan	F∈b	Bar	à pr	Pay	Jur	Jel	Aug	S∈ŗ	Cct	B C V	Lec
1	0.0	0.0	0.08	0.0	0.35	0.0	0.07	0.0	0.0	0.0	0.0	0.01
2	0.30 0.28	0.0	0.8	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.04	0.05
ß	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
5	0.05	0.0	0.3	0.0	3.15	0.0	0.0	0.0	D.G	0.0	0.19	0.0
€	0.0	0.0	3.0	0.0	0.29	0.05	0.0	0.0	0.0	0.0	0.0	0.01
7	0.0	0.0	0.0	0.0	0.04	0.05	0.0	0.01	0.0	0.0	0.0	0.02
8	0.0	0.01	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 10	0.0	0.0	0.28	0.0	0.38	0.0	0.11	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	9.5	0.0	C-11	0.12	9.9	0.0	0.0	0.0	0.0	3.0
11	3.0	0.0	0.0	0.)	0.02	0.40	0.0	0.0	0.0	0.0	6.0	6.34
12	0.0	0.0	0.01	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.5	0.30	0.0	0.05	0.0	0.0	0.0	0.0	0.05	6.20
14	0.0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	3.04	0.0	0.13	0.18
15	0.0	0.0	3.3	0.0	0.10	0.0	0.0	0.0	0.0	0.0	ú.03	0.43
16	C.O	0.3	0.01	0.3	0.14	3.0	0.0	0.0	0.14	0.0	0.0	0.0
17	0-0	0.0	0.04	0.0	0.04	0.0	0.0	0.0	0.0	0 - 0	0.0	0.26
18	0.0	0.0	0.01	0.0	0.25	3.0	0.0	0.0	0.0	0.0	0.05	0.0
19 20	0.0	0.0	0.34 3.01	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.04	0.0
20	0.0	9.0	3.01	0.0	0.0	9.21	0.0	0.0	0.22	0.0	0.0	0.0
21	0.0	U.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0
22	0.0	0.04	3.0	0.0	0.0	0.0	0.02	0.0	0 - 0	0.0	0.30	0.02
23	0.0	0.22	0.02	0.0	0.05	0.0	0.0	0.0	0.10	0.0	90.0	0.13
24 25	0.0	0.3	0.36 0.0	0.0	0.0 0.02	0.0	0.15	0.29	0.67	0.0	0.30	0.05
25	0.0	0.31	0.0	0.0	0.02	0.0	0.0	0.45	9.0	0.02	0.14	0.0
2€	0.0	0.10	0.0	0.0	0.56	0.0	0.3	0.02	0.0	0.04	0.12	0 - 0
27	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.07	0.0
28	0.0	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0
29 30	0.0		0.03	0.0	0.0	0.0	0.0	0.0	0.34	0.14 0.16	0.02 0.0	0.18
31	0.0		0.07	0.0	0.0	0.6	0.3	0.0	9.0	0.0	0.0	0.02
											4.65	
TAI A AV	0.73	0.63	0.91	0.30	2.70	0.94	0.63	0.77	1.54	0.36	1.94	2.00

Gaging: Values are amounts from unshielded recording gage (23401. Station Averages: Bot applicable to unshielded rain gage records.

1577	D.	ALLY PREC	IFITATICE	(INCHES)		EBY	MOIDS, IC	BC SAIRC	B CHEER W.	TEBSEED	(046017)	
Day	Jan	F∈b	Bar	Apr	Bay	Jor	Jul	Aug	S∈p	Cct	₿cv	£ ∈ c
1	0.0	0.0	0.13	0.0	0.35	0.0	0.07	0.0	0.0	0.0	0.0	0.02
2	0.41	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.04	0.05
6	0.39	0.0	0.17 0.J	0.0	0.08	0.0	0.05	0.0	0.0	0.0	0.0	0.0
5	0.07	0.0	0.0	0.0	0.17	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.35	0.05	0.0	0.0	0.0	0.0	0.0	0.02
7	0.0	0.0	0.0	0.0	0.04	0.05	0.0	0.01	0.0	0.0	0.0	0.02
6	0.0	0.01	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ç	0.0	0.0	0.38	0.0	0.41	0.0	0.11	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.12	0.12	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.02	0.40	0.0	0.0	0.0	0.0	0.0	0.35
12	0.0	0.0	0.02	0.0	0.0	0.€€	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.30	0.0	0.05	0.0	0.0	0.0	0.0	0.09	0.21
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0 4	0.0	0.13	0.16
15	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.03	0.43
16	0.0	0.0	0.02	0.0	0.14	0.0	0.0	0.0	0.14	0.0	0.0	0.0
17	0.0	0.0	0.07	0.0	0-04	0.0	0.0	0.0	0.0	0.0	0.0	0.56
18 19	0.0	0.0	0.02	0.0	0.29	0.0	0-0	0.0	0.0	0-0	0.07	0.01
20	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0 0.22	0.0	0.05	0.0
					0.0	0.21	0.0	0.0	0.22	0.0	0.0	0.0
21	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0
22	0.0	0.05	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.42	0.03
23	0.0	0.29	0.04	0.0	0.09	0.0	0.0	0.0	0.10	0.0	0.10	0.17
2ª 2 =	0.0	0.01	0.12	0.0	0.0	0.0	0.17	0.29	C.67	0.0	0.34	0.07
2=	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.45	0.0	0.02	0.17	0.0
26	0.0	0.13	0.0	0.0	0.58	0.0	0.0	0.02	0.0	0.04	0.23	0.0
27	0.0	0.0	0.12	0.0	0.03	0.0	0.0	0.0	G.0	0.0	0.12	0_0
28	0.0	0.05	0.06	0.0	0.0	0.0	0.0	0.0	C.03	0.0	0.0	0.0
2 9 3 0	0.0		0.06	0.0	0.0	0.0	0.0	0.0	C.34	0.14	0.03	0.25
31	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.15
								0.0		0.0		0.03
TAI	0.95	0.84	1. 44	0.30	2.64	0.54	0.65	0.77	1.54	0.3€	2.48	2.59

Gaging: Values are amounts from shielded recording gage 023501. Station Averages: Not applicable to shielded rain gage records.

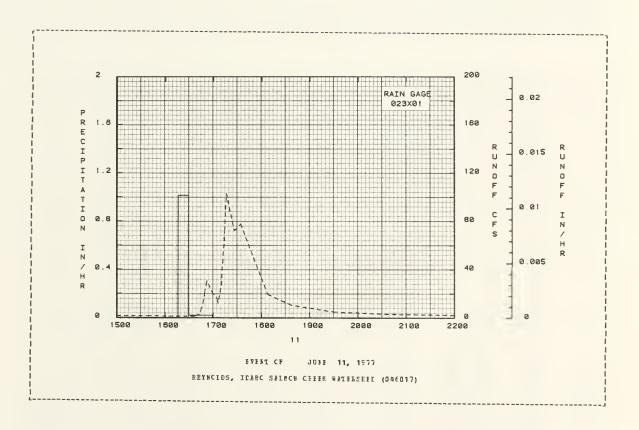
197	17	eean Daii	I IISCHAFO	E (CFS)		БЕТ	KCIDS, ICA	BC SALECT	CBEEK W	41; 85; FEC	(046017)	
Day	Jan	F∈b	ðar	Apr	Eay	Jur	Jul	λυg	S∈p	Cct	Nev	I∈c
1	0.603	0.711	1.118	0.991	0.698	0.967	0.106	0.006	0.0	0.0	u. 134	1.143
2	6.732	8.711	1.078	0.939	0.657	0.939	0.161	0.004	J.0	0.0	0.152	1.143
3	0.788	ŭ.693	1.222	1.021	0.602	0.691	0.114	0.004	0.0	0.0	0.171	1.061
4	0.76€	0.693	1.178	1.077	0.602	0.825	0.106	0.004	0.0	0.0	0.171	0.991
5	0.768	0.693	1.075	1.156	0.705	0.610	0.092	0.004	0.0	0.0	0.161	0.926
ε	0.827	0.693	0.987	1.567	0.644	0.453	0.062	0.009	0.0	0.0	0.191	1.034
7	0.867	0.693	1.099	1.650	0.807	0.454	0.076	0.004	0.0	0.0	0.201	0.929
6	0.908	0.693	1.121	1.396	0.768	0.462	0.005	0.004	0.0	0.0	0.223	0.803
ç	0.949	0.693	1.514	1.490	0.957	0.444	0.045	0.004	0.0	0.0	0.235	0.807
10	0.970	0.693	1.423	1.247	1.153	0.488	0.056	0.004	0.0	0.0	0.246	0.525
11	0.970	0.906	1.296	1.278	1.077	5.609	0.046	0.094	0.0	0.0	C.246	1.352
12	0.970	0.920	1.362	1.233	1.166	1.451	0.035	0.004	0.0	0.0	0.235	1.667
13	0.970	1.043	1.197	1.263	1.221	1.101	0.027	0.004	0.0	0.0	0.271	2.096
14	0.970	1.018	1.137	1.233	1.158	0.647	0.023	0.004	0.0	0.0	0.350	2.278
15	0.908	1.075	1.1)5	1.279	1.186	0.667	0.023	0.004	.0.002	0.0	0.337	6.472
16	0.847	1.039	1.126	1.467	1.324	0.698	0.023	0.004	0.004	0.0	0.263	3.446
17	0.847	1.034	1.117	1.538	1.467	0.633	0.027	0.004	0.004	0.0	0.316	3.127
18	0.867	1.032	1.122	1.396	1.626	0.525	0.031	0.004	0.604	0.0	0.273	2.496
19	938.0	0.964	1.301	1.278	1.418	0.493	0.027	0.004	0.004	0.0	0.473	1.652
20	0.809	1.012	1.256	1.233	1.308	0.458	0.019	J.004	0.004	0.0	0.235	1.044
21	0.730	1. 21 2	1.199	1.165	1.374	0.415	0.016	0.009	0.004	0.0	0.383	2.255
22	0.730	1.110	1.293	1.160	1.233	0.379	0.016	0.004	0.004	0.0	0.363	2.002
23	0.711	0.887	1.347	1.036	1.276	0.325	0.016	0.004	0.004	0.028	0.775	2.169
24	0.693	0.861	1.332	0.657	1.135	0.278	0.016	0.004	0.004	0.050	1.895	2.489
25	0.693	0.898	0.939	0.749	0.570	0.261	0.016	0.002	0.004	0.059	2.651	2.400
2€	0.693	1.168	0.822	0.706	0.959	0.203	9.016	0.0	0.304	0.061	3.056	2.27€
27	0.693	1.103	0.743	0.693	1.233	0.170	0.016	0.0	0.004	0.087	2.004	2.107
28	0.693	1.188	0.724	0.656	1.210	0.120	0.012	0.0	0.002	0.094	1.590	1.996
29	0.693		0.867	0.620	1.255	0.109	0.005	0.0	0.0	0.127	1.348	2.081
30	0.711		0.689	0.602	1.150	0.057	0.005	0.0	0.0	0.156	1.233	2.416
31	0.711		0.955		1.028		0.009	0.0		0.134		1.814
BEAR	0.8065	6.9083	1.1249	1. 1255	1.0773	0.7130	0.0420	0.0032	0.0017	0.0263	0.6735	1.9176
INCHES	0.066	0.067	0.192	9.069	0.088	0.057	0.003	0.000	0.000	0.002	0.054	0.157
VA AFE	0.642	0.337	0.571	0.466	0.297	0.123	0.024	0.026	0.018	0.049	0.086	0.170

Statico Averages: 13 yr tegioning 1965. Conversion Factor: CPS to IN/DAY, multiply by 0.002646.

ABTECECEBT CCBDIT	ICES			IKEALL			FUNCE	E	
Date Bainfall Bo-Day (irches)	Funcff [inches]		lise of Cay	Intersity (in/hr)	Acc. (inches)	Date Sc-Day	lim∈ of Cay	Fate (cfs)	Acc. [inches]
		E	EBI CP	JUNE 11	, 1977				
BG 023X01			EG 0231	(0.1					
6-11 9-17	0.001	6-11	1938	0.0	0.0	6-11	1028	0.452	0.0
			1518	0.0	0.0		1036	1.371	0.0000
			1629	1.0154	0.22		1038	2.362	0.0000
			1659	0.3200	0.23		1040	4.146	0.0000
							1042	5.869	0.0000
ATESSED CCECITIONS:								0.04-	
e event is thunderst	CIB						1044	9.947	6-0001
ncff.							1046	16.421	0.0001
							1048	10.818	0.0002
							1056	7.651	0.0003
							1190	9.453	0.0004
							1106	8.222	0.0005
							1110	11.560	0.0005
							1112	16.421	0.0006
							1119	23.126	0.0007
							1116	29.382	0.0006
							1118	39.288	0.0009
							1120	31-105	0.0010
							1126	21.262	0.0013
							1138	25.045	0.0018
							1148	16.205	0.0022
							1158	13.197	0.0025
							1212	6.518	0.0028
							1232	5.755	0.0031
							1256	3.696	0.0033
							1342	2.362	0.0035
							1438	1.662	0.0037
							1538	1.371	0.0039
							1636	1.168	0.0090
							1642	2.990	0.0040
							1644	5.206	0.0041
							1044	- 20 C	0.0041

1977		LECTED FURC	DEF EVENT			EFYNC	LES, JEAEC	SALECT	CEEEK WAT	EBSEEC (046	0 17)
	BRIFCEL	ENT CCHDIT				INEALL			FO N C 1		
	Cat∈ Mo-Day	Rainfall (irches)	Suncff (incbes)	Dat∈ Mo-Day	Jime of Cay	Intensity (in/br)	Acc. (inches)	Dat∈ ëc-Day	Tite	Fate	Acc. (incbes)
				EVENT (F JOI	E 11, 197	7 (CONTIN	(DEC)			
							,	,			
								6-11	164€	8.977	0.0341
									1546	15.084	6.0041
									1650	23.508	0.0042
									1652	30.663	0.0043
									1656	21.628	0.0046
									1704	16.704	0.0046
									17/16	12.351	6.0049
									1710	27.274	0.0050
									1712	48.752	0.0052
									1714	72.163	0.0054
									1716	102.554	0.0057
									1726	72.163	0.0037
									1734	77.752	6.0073
									1750	45.354	
									1608	15.175	0.0103
									1000	13.175	0.0114
									1838	10.286	0.0122
									1930	4.855	0.0125
									2038	2.990	0.0134
									2146	2-480	0.0138
									2400	2.135	0.0143

Conversion Factor: CFS to IN/FF, sultiply by .0001103.



EE.002- 4

RETNCIES, IDABC MACKS CHEEK WATHESHED (046084)

LCCATION: Cwyhee County, Idaho; 34 miles south of Hampa; east flowing tributary to Reynolds Creek, Smake Biver Fasin. Iat. 43 deg. 14 min. 42 sec. N.; Iong. 116 deg. 45 min. 30 sec. W.

7846.00 acres 12.26 sg. miles

ž C	ETHI	A SEECIE	ITATION	ANT EURC	EE (INCEE	£)		BEYKCI	DS, IDAEC	MACRS C	REEK WAS	EFSLEC (046064)	
-		Jan	F∈b	žar.	gÈI	ĕау	Jun	Jul	Łυg	S€p	Oct	NC ¥	D€C	lroual.
1977	P Ç	3.96 0.)46	1.45 0.059	2.01 0.354	0.34 0.053	3.57 J.048	1.35 0.027	0.67 0.006	1.04 0.001	1.59 0.001	0.51 0.001	3.35 0.001	3.54 0.066	20.36 0.364
STA AV	P Ç	2.44 9.528	1.42 0.273	1.95 0.676	1.59 0.521	1.05 0.208	1.68 0.066	0.51 0.015	0.84 0.008	1.10 0.005	1.56 0.016	2.05 0.032	2.22 0.111	16.40 2.459
	ANN	DAL BAXI		CHARGE (i	n/hr) AND				NCFF (incl	-	- -		NTERVALS	
		Disch Date		1 Hcui Late Vo		Hours Vol.			12 Ecuis Eate Vcl.		Cay Vol.	2 Cay Cat∈ V		£ Lays t∈ Vol.
1977		6-11	0.002	6-11 0.	.001 12-15	0.002	12-15	0.005 1	2-15 0.00	9 12-15	0.012	12-15 0	.016 12-	14 0.031
						earieue:	S FCF F	FFICE CF	THOCHE					
		1-21 1969	0.039	1-21 0. 1969	.037 1-20 1969		1-20 1969		1-20 0.29 1969	4 1-20 1969	0.457	1-20 0 1969	.649 2-1 19	27 1.01 5

Natershed Conditions: The watershed torography is steep, except in the lower valley, with unwerous basalt outcrops at the higher elevations. Sex is sagebrush rargelard with a varying cover of sagebrush, bitterbrush, mountain mahogany and willow with a fair cover of forage plants such as cheatgrass, bluehurch wheetgrass, ord Idaho fesone. 35% of area has a vegetative cover of 5-25%, 33% of the area has a vegetative cover of 5-50%, 18% of area has a vegetative cover of 5-175%, and 12% of the area has a vegetative cover of 76-100%. 2% of area is in pasture and hayorops which receives limited irrigation.

Baps: Topographic/Bydrologic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USLA Misc. Fub. 1226, page 66.3-4.

Frecipitation: Fecords began 1963. 'Computed Actual' amounts from rain gage 052X93. STA AV values based on 10 yr beginning 1568.

Funoff: Records began 1963. STA AV values based on 15 yr beginning 1563.

Funoff: Records began 1963. STA AV values based on 15 yr beginning 1963.

Iong-Term Frecipitation: Mational Weather Service records at Ecise, Idaho; 50 miles M.F. of watershed.

1977	C.E	IIY PRECI	N DITATICK	(18CBES)		£ E	YNCLIS, 1	DAEC BACK	E CEEEK W.	ATEFSHED	(046064)	
Lay	Jan	₽eb	Bar	A FI	May	Jur	Jul	Aug	Sep	Cct	Nov	Dec
1 1 1 1 1 3 1 4 1 5	0.0 0.46 0.24 0.14	0.0 0.0 0.0 0.0	0.16 0.0 0.13 0.0	0.16 0.0 0.0 0.0 9.0	1.33 0.0 0.11 0.0 0.26	0.0 0.0 0.0 0.0	0.06 0.38 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.04 0.0 0.0 0.33	0.03 0.12 0.0 0.0
 6 7 6 9	0.0 0.0 0.0 0.0	0.0 0.0 0.08 0.0	0.0 0.3 0.0 0.60	0.0 0.0 0.0 0.0 0.0	0.36 0.10 0.0 0.19 0.06	0.10 0.02 0.0 0.0 0.0	0.0 0.3 0.0 0.09	0.05 0.02 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.04 0.0 0.0 0.0	0.0 0.0 0.24 0.0	0.02 0.0 0.0 0.0 0.0	0.57 0.05 0.05 0.02 0.0	0 - 0 0 - 0 1 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0 2 0 - 0	0.0 0.0 0.0 0.0	0.0 0.0 0.17 0.11 0.0	0.66 0.0 0.30 0.49 0.52
16 17 18 19 20	0-0 0-0 0-0 0-0	0.0 0.0 0.3 5.3 0.01	0.04 0.34 0.04 0.11	0.0 0.0 0.0 3.0	0.10 0.01 0.20 0.0	0.0 0.0 0.0 0.91 0.31	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.18 0.0 0.0 0.0 0.20	0.0 0.0 0.0 0.0	0.0 0.0 0.11 0.06 0.0	0.0 0.46 0.02 0.0
1 21 1 22 1 23 1 24 1 25	0.0 6.0 0.0 0.0	0.47 0.18 0.52 0.0 0.0	0.0 0.0 0.07 0.21	0.0 0.0 0.0 0.0	0-0 0-02 0-05 0-02 0-02	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.12 0.01	0.0 0.0 0.0 0.40 0.44	0.0 0.0 0.07 0.69 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.96 0.30 0.08 0.40 0.40	0.0 0.05 0.15 0.14 0.0
26 27 28 29 30	0.0 0.0 0.0 0.0 0.0 0.0	0.09 0.0 0.10	0.0 0.07 0.14 0.11 0.0 0.21	0.0 0.0 0.3 0.0	0.63 0.06 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0-0 0-8 0-0 0-0 0-0	0-13 0-0 0-0 0-0 0-0	0.0 0.0 0.05 6.38 0.0	0.06 0.0 0.0 0.22 0.23 0.0	0.23 0.12 0.0 0.04 0.0	0.0 0.0 0.0 0.21 0.35 0.02
I ICIAI SIA AV	0.96 2.44	1.45 1.42	2.01 1.95	0.34 1.59	3.57 1.05	1.35 1.68	0.67 0.51	1.04	1.59 1.10	0.51 1.56	3.35 2.05	3.54 2.22

Air Temperature: See table for Watershed 66.001.
Gaging: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded). 'Actual' amounts
were computed as per relationship developed by W. R. Samon, "Computing Actual Precipitation", Proceedings of MBCILES Symposium, Geilo, Morway, August, 1972. The equation used is: loge (U/A) = loge (U/S) x 1.80, where U =
unshielded catchment, S = shielded catchment, and A = actual amount of precipitation.
Station Averages: 10 yr Leginniug 1968.

Cooperative Research Project of USDA abd USEI and Idaho Agricultural Experiment Station

1577	.1	AILY PEEC	IFITATICE	(INCHES)		RE:	NCIES, II	ARC EACES	C C D E F K W A	TERSEEL	(046064)	
ray	Jan	₽€h	Bar	Apr	lay	Jur	Jul	à u g	Sep	Cct	Ncv	Lec
1	0.0	0.0	0.08	0.03	1.26	0.0	0.0€	0.0	0 - 0	0.0	0.6	0.02
2	3.27	0.0	0.0	0.0	0.0	0.0	0.3€	0.0	0_0	0.0	0.09	0.09
3	0.10	0.0	0.06	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0
Ê	0.05	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.26	0.0
٤	3.0	0.0	0.9	0.0	0.28	0.09	0.0	0.05	0.0	0.0	0.6	0.0
7	0.0	0.0	0.3	0.0	0.99	0.01	0.0	0.02	0.0	0.0	0.0	0.0
8	0.6	9.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.25	0.0	0.13	0.0	30.0	0-0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.04	0.20	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.02	0.50	0.0	0.0	0.0	0.0	0.0	0.60
12	0.0	0.0	0.01	0.0	0.0	0.05	0.01	0 - 0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.3	0.24	0.0	0.05	0.0	0.0	0.0	0.0	0.14	0.19
14	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.02	0-0	0.08	0.33
15	9.9	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.35
16	0.0	0.0	0.01	0.0	0.08	0.0	0.0	0.0	0.17	0.0	0.0	0.0
17	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.32
18	0.0	0.0	0.01	0.0	0.16	0.0	0.0	0.0	C-0	0.0	0.07	0.01
19	0.0	0.0	0.33	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04	0.0
26	0.0	0.01	9.01	0.0	0.0	0.31	0.0	0.0	0.20	0-9	0.0	0 - 0
21	0.0	0.33	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.51	0.0
22	0.0	0.13	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.17	0.02
23	0.0	0.25	0.02	0.0	0.05	0.0	0.0	0.0	0.96	0.9	0.64	0.08
24	0.0	0.0	0.36	0.0	0.02	0.0	0.10	0.34	0.58	0.0	0.21	0.06
25	0.0	0.9	9.0	0.0	0.02	0.0	0.01	0.38	0.0	0.0	0.22	0.0
26	0.0	0.04	0.0	0.0	0.57	0.0	0.0	0.11	0.0	0.05	0.18	0.3
27	0.0	0.0	0.92	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.09	0.0
2€	9.0	0.04	9.04	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0
29	0.0		0.03	0.0	0.0	0.0	0.0	0-0	0.31	0.19	0.03	0.09
30	0.0		0.0	0.0	0.0	0 - 0	0.3	0.0	0.0	9-21	0.0	0.14
31	0.0		0.08		0.0		0.3	0-0		0.0		0.01
AL	0.41	0.86	0.70	0.27	3.15	1.24	0.62	0.90	1.39	0.45	2.08	2.29

Gaging: Values are amounts from unshielded recording gage 053493. Station Averages: Mot applicable to unshielded rain gage records.

IAI V AI	0.67	1.12	1.24	0.30	3.35	1.30	0.63	0.98	1.45	0.47	2.70	2.87
31	0.0		0.12		0.0		0.0	0.0		0.0		0.01
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.24
29	0.0	0.00	0.06	0.0	0.0	0.0	0.0	0.0	0.05	0.20	0.04	0.0
28	0.0	0.9 0.06	0.04	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.11	0.0
2 E 2 7	0.0	0.06	0.0	0.0	0.60	0.0	0.0	0.12	0.0	0.05	0.22	0.0
26		0.06			0.00							
25	0.0	0.0	0.0	0.0	0.02	0.0	0.01	0.39	0.0	0.0	0.30	0.0
24	0.0	0.0	0.12	0.3	0.02	0.0	0.10	0.40	0.62	0.0	0.30	0.09
23	0.0	0.38	0.04	0.0	0.05	0.0	0.0	0.0	0.06	0.0	0.06	0.10
22	0.0	0.15	0.0	0.0	0.02	0.6	0.0	0.0	0.0	0.0	0.73	0.03
21	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.73	0.0
20	0.0	0.01	0.02	0.0	0.0	0.31	0.0	0.0	0.20	0.0	0.0	0.0
19	0.0	0.0	0.08	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.05	0.0
18	0.0	0.0	0.32	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.09	0.01
17	0.0	0.0	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.40
16	0.0	0.0	0.02	0.0	0.09	0.0	0.0	0.0	0.17	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.44
14	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.02	0.0	0.08	0.40
13	0.0	0.0	0.0	0.24	0.0	0.05	0.0	0.0	0.0	0.0	0.16	0.24
12	0.0	0.0	0.02	0.0	0.0	0.05	0.01	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.02	0.54	0.0	0.0	0.0	0.0	0.0	0.64
10	0.0	0.3	0.0	0.0	0.05	0.21	0.0	0.0	0.0	0.0	0.0	0.0
9 10	0.0	0.0	0.41	0.0	0.16	0.0	0.0€	0.0	0.0	0.0	0.0	0.0
3	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
7	0.9	0.0	0.0	0.0	0.10	0.01	0.0	0.02	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.30	0.10	0.0	0.05	0.0	0.0	0.0	0.0
											0.27	
E	C.08	0.0	0.0	0.0	0.25	0.8	0.0	0.0	0.0	0.0	0.29	0.0
4	0.17	0.0	0.0	0.0	0.0	9.0	0.3	0.0	0.0	0.0	0.0	0.0
2 3	0.32	0.0 0.0	0.3	0.0	0.0 0.11	0.0	0.37	0.0	0.0	0.0	0.04	0.11
1	0.0	0.0	0.12	0.06	1.29	0.0	0.06	0.0	0.0	0 - 0	0.0	0.02
					<u>-</u>			·í	·			
Day	Jan	P∈b	Bar	Apr	Bay	Jur	Jel	2 p q	Sep	Cct	B C V	l∈c

Gaging: Values are amounts from shielded recording gage 053593. Station Averages: Bot applicable to shielded rain gage records.

197	17	MEAN DAIL	r rischaf	E (CES)		EE:	NCICE,	ICARC BACKS	CREEK	WATERSEEC	(046084)	
Day	Jan	P∈b	Mar	Prr	Łay	Jer	Je1	Δug	Sep	Cct	Nev	£ec_
1	0.298	0.480	0.852	0.419	0.360	0.355	0.068	0.008	0.011	0-011	0.006	0.023
2	0.331	0.583	0-795	0.432	0.368	0.316	0.080	0.011	300.0	0.011	0.008	0.026
3	0.319	0.566	0.892	0.459	0.368	0.294	0.068	0.011	0.006	0.011	0.011	0-034
4	0.319	0.578	0.802	0.588	0.393	0.287	0.068	0.011	0.006	0.011	0.011	0.042
5	3.438	0.528	0.821	1.077	0.493	0.265	0.068	0.011	0.006	0.011	0.011	0.052
€	0.486	5.531	0.541	1.197	0.524	0.252	330.0	0.011	0.006	0.011	0.011	0.085
7	0.48€	0.586	1.002	1.118	0.620	0.273	330.0	0.011	0.00€	0.011	0.011	0.068
3	0.473	0.60ŭ	1.049	0.606	0.542	0.234	0.062	0.011	J.00€	0.011	0.011	0.062
9	0.473	0-632	1.237	0.900	0.636	0.222	0.062	0.008	0.006	0.011	0.008	0.070
10	0.473	0.694	0.901	0.822	0.754	0.273	0.0€€	0.006	0.006	0.014	0.066	0.053
11	0.486	o. 70 8	0.804	0.734	0.660	1.862	3.0€€	0.006	0.006	0.017	0.006	0.300
12	0.500	0 - 64 9	0.832	0.681	0.630	0.632	0-074	0.006	0.006	0.017	0.006	0.423
13	0.528	0.799	0.441	0.803	0.600	0.466	0.08€	0.006	0.006	0.014	0.006	0.602
14	0.542	J. 69 B	0.383	0.883	0.571	0.307	0.093	0.004	0.00€	0.011	0.006	0.739
1 5	0.493	0.683	0.418	0.786	0.571	0.265	0.063	0.003	0.006	0.011	0.00€	3.970
16	0.528	0.735	0.393	0.64€	0.58€	0.227	0.100	0.003	0.006	0.011	0.008	1.412
17	0.571	0.829	0.368	0.543	0.557	0.215	0.096	0.003	0.00€	0.011	0.011	1.347
18	0.609	0.758	0.351	0.473	0.528	0.203	0.110	0.003	0.006	0.011	0.011	0.972
19	0.645	0.698	0.380	0.446	0.557	0.191	0.100	0.003	0.00€	0-011	0.011	0.638
20	0.564	0. 695	0.368	0.432	0.547	0.22€	0.093	0.003	0.06€	0.011	0.011	0.559
21	0.600	0.962	0.321	0.406	0.446	0.20€	0.093	0.004	0.00€	0.011	0.011	0.601
22	0.581	0.838	0.393	0.380	0-419	0.198	0.086	0.006	300.0	0.011	0.011	0.630
23	0.543	0.775	0.369	0.355	0.44€	0.181	0.077	0.306	0.011	0.011	0.011	0.848
24	0.529	0.727	0.319	0.331	0.459	0.180	0.068	0.011	0.011	0.011	0.011	1.126
25	3.58€	0.716	0.319	0.319	0.432	0.187	0.057	0.020	0.011	0-914	0.011	1.087
26	0.557	0.895	0.331	0.319	0.429	0.172	0.032	0.023	0.011	0-017	0.011	0.931
27	0.488	0.811	0.361	0.307	0.500	0.166	0.014	0.020	0.011	0.014	0.011	0.898
28	0.48€	0.992	0.332	0.29€	0.48€	0.15€	0.011	0.014	0.311	0.008	0.011	6.900
29	0.467		0.368	0.285	0.459	0.056	0.011	0.011	0.011	0.006	0.014	0.969
30	0.459		365.0	0.274	0.432	0.054	0.011	0.011	0.011	0.00€	0.020	1.390
31	0.419		0.398		0.393		0.008	0.011		0.006		0.979
EAR	0.4926	0.7002	0.5775	0.5774	0.5094	0.2973	0.0666		0.0077			0.704
CHES	0.046	0.059	0.054	0.053	0.048	0.027	0.006		0.001			0.06
VA AD	0.528	0.273	0.676	0.521	0.208	0.063	0.015	0.006	0.009	0.016	0.032	0.11

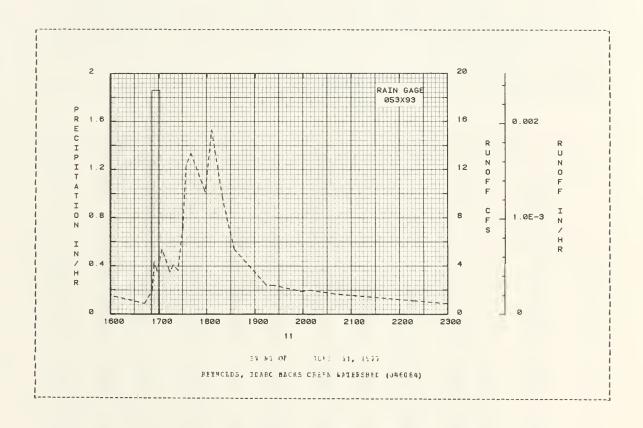
Conversion Factor: CPS to IN/DAY, moltiply by 0.003034.

	FEENT CCHDI				KFAIL			5 UNC F		
Late		Euncff	Date	Time	Intersity	A.c.c	rate		r Fat∈	Acc.
	(irches)				(in/tr)					
			F.	VENT CF	JUNE 11	. 1977				
	RG 053X93			FG 0 531	103					
ε −11	0.26	0.000	6-11	1030	0.0	0.0	6-11	1028	0.252	0.0
~	*****	00000	٠	1651	0.0	0.0	٠	1036	0.586	0.0000
				1701	1.8600			1042	2.537	0.0000
						••••		1048	1.479	0.0001
								1052	2.152	0.0001
	D CCRITICES									
	is thunders	tcre						1056	3.051	0-0001
off.								1102	2.213	0.0001
								1110	1.345	0.0002
								1134	0.675	0.0002
								1136	5.040	0-0002
								1138	19.054	0.0003
								1204	7.515	0.0010
								1250	3.211	0.0015
								1342	1.665	0.0018
								1412	1.524	C.0019
								1642	0.867	0.0023
								1652	1.978	0.0023
								1654	4.297	0.0023
								1658	3.549	0.0023
								1704	5.388	0.0024
								1714	3.462	0.0025
								1718	4.101	0.0025
								1724	3.637	0.0026
								1730	7.185	0.0026
								1734	12.325	0.0027
								1740	13.353	0.0029
								1758	10.124	0.0033
								1806	15.297	0.0035
								1820	9.449	0.0039
								1834	5.388	0.0041

Conversion Factor: CFS to IN/85, multiply by .00012640.

ANTECECENT CONDITION	CNS		INFALL			FUNCF	F	
Cate Rainfall	Euncff Date	Time	Intensity	Acc.	[at∈	li∎∈	Fat∈	Acc.
to-ray (irches)	(inches) Mo-Da	y of Lay	(in/hr)	(inches)	Fc-Day	of Cay	(cfs)	(inches)
	EVEN	g 05 15	NE 44 453	3 4668873	DEDI			
	TATU	T CF JU	NE 11, 157	7 (CCETIE	(UEL)			
					6-11	1914	2.403	C-0044
						1926	2.338	0.0095
						1958	1.869	0.0046
						2208	1. 578	6.0047
						2040	1.665	0.0048
						2218	1.113	0.0051

Conversion Factor: CFS to IN/FF, multiply by .00012640.



68.003- q

REYNCLES, ICARC TOLLEGATE WATERSHIP (116083)

LCCATION: Owyhee County, Idaho; 40 miles sonth of hamfa; main stem of Feynolôs Creek which is tributary to the Smake River. Iat. 43 deg. 8 min. 33 sec. N.; Iong. 116 deg. 45 mir. 42 sec. K.

13953.00 acres 21.02 sq. miles

P C	FTHI	Y PFFCIE	ITATICN	3 1 1 A 6	UNOFF	(INCEES)		FEYN	CIES,	ITABC :	ICIIGAT	E WATE	SBEE (116083		
		Jan	F∈b	Ĕar	A	ŁΓ	tay	Jun	Jul	1	tg .	S€E	Oct	КсV	D∈o	1	nnual
1977	Ç Ç	1.07 3.378	1.7E	2.2 0.1			3.2E 0.439	1.38 0.182	0.79 0.02			1.27 0.002	0.40 0.024	4.65 0.09			5.24 1.771
SIA AV	P Q	4.51 0.692	2.71 0.457	3.1: 1.0		.¢5 .770	1.3E 3.404	1.77 1.817	9.69 0.28			1.12 0.038	2.16 0.089	3.34 0.15			7.98 9.912
	ANN	Mexi	 		-			Haxieum	Vcluse	fcr	Selecte	 d lim∈	Interva	1			
		Disch Dat∈		1 E Lat∈	Vol.	2 E Dat∈			vcl.		Vcl.		ray Vol.		ays Vcl.		ays Vol.
1977		12-15	0.011	12-15	0.613	12-15	0.018	12-15	0.347	12-15	0.971	12-14	0.112	12-14	0.1EE	12-11	0.247
						ŧ	AXIEOES	S FC B P	FFIOT C	FFEC	180						
		1-21 1985	0.030	1-21 1989	0.029	1-21 1989	0.057	1-21 1969	0.157	1-21 1969	0.283	1-20 1969	0.454	1-20 1989	0.812	5-12 1975	1.970

watershed Conditions: Watershed is generally sagebrush rangeland except for scattered stands of Donglas fir, aspen and mourtain meadows. The topography is steep with numerous rock outcrops on the ridges. The watershed is need mainly for cattle grazing except during the winter when such blankets most of the area. Vegetation consists predominantly of hig sagebrush, little sagebrush, rabbitbrush, snowherry, blue hurch wheatgrass, ldaho fesone, and squirreltail grass. 251 of the area has a vegetative cover of 0-25%, 15% of the area has a vegetative cover of 26-26%, 15% of the area has a vegetative cover of 26-26%. The cover of the area has a vegetative cover of 26-26%. The cover highest production of the same has a vegetative cover of 26-26%. The cover highest production of the same has a vegetative cover of 26-26%. The cover highest production of the same has a vegetative cover of 26-26%.

76-10°%.

**Aps: Topographic/Hydrologic - Hydrologic Cata for Experimental Agricultural Watersheds in the United States, 1967, USTA Bisc. Eut. 1262, page 66.4-6.

Frecipitation: Feccrds began 1563. "Computed Actual" amounts from rain gage 155x07. STA AV values are based on 10 yr beginning 1566.

**Bunoff: Records tegan 1567. STA AV values tased on 11 yr beginning 1567.

**Long-Term Frecipitation: Wational Geather Service records at Ecise, Jeahc; 50 miles N.E. of watersted.

1977	12	AILY PREC	ROLLALIA	(INCEFS)		Б	EYNCIES, I	CAHC 1CI	LGATE WAT	FESBFE (1	16083)	
Lay	Jan	F€b	bar	yři	Bay	Jnr	Jtl	ang	S∈p	Cct	Всv	ſ€c
1	0.0	0.0	0.32	0.20	0.21	9.0	0.10	0.0	0.0	0.0	0.0	0.04
2	0.54	0.0	0.34	9.9	6.9	0.0	0.33	0.0	0.0	0.0	0.20	0.20
3	0.22	0.0	U-21	0.0	C.29	0.0	0.03	0.04	0.0	0.0	0.0	0.10
4 <u>E</u>	0.20	0.0	j.,j	0.0	0.13	9.0	0.0	0.0	9.0	0.0	0.0	9.3
=	0.11	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.86	0.0
ε	0.0	0.3	3.0	0.0	0.66	0.06	0.0	0.0	0.0	0.0	0.0	0.06
7	0.0	0.3	0.02	0.0	0.02	0.02	0.0	0.05	0.0	0.0	0.0	0-0
e	0.0	0.95	0.37	0.0	0.0	3.02	0.0	0.0	0.0	0.0	0.0	0.0
è	0.0	9.00	0.54	0.3	0.25	0.11	J.04	0.0	0.6	9.0	0.0	0.0
10	0.0	0.0	0.3	0.0	0.15	0.36	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	9.9	J. 14	0 - E2	0.0	0.0	0.0	0.0	0.0	0.83
12	0.0	0.9	0.35	0.0	0.0	0.02	0.0	0.0	0.9	9-0	0.0	0.01
1.3	0.0	0.0	3.94	0.11	0.0	0.04	0.0	0.0	0.0	0.0	0.08	0.25
14	6.9	3.0	0.33	9.0	0.0	0.0	6.0	0.0	6.04	0.0	0.13	1.29
15	0.0	0.0	0.9	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.08	0.91
16	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.31	0.0	0.0	0.0
17	0.0	0.0	0.31	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	9.54
16	0.0	0.0	0.11	0.0	0.07	0.28	0.0	0.0	U_C	0 - 0	0.08	0.14
19	0.0	0.0	0.07	0.0	0.9	0.03	0.1	0.0	0.03	0.0	0.03	0.0
20	0.0	0.0	0.03	0.0	0.9	0.12	0.9	0.0	0.17	0.0	0.0	0.0
21	0.0	0.50	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1-04	0.0
22	9.0	0.33	0.3	0.0	0.01	0.0	0.12	0.0	0.0	0.0	0.73	U. 0 E
23	0.0	0.52	0.0	0.0	0.18	0.0	0.0	0.0	0.01	0.0	0.12	0.33
24	9.0	9.06	9.17	0.0	0.02	0.0	0.17	0.60	0.45	0.0	0.54	0.48
25	0.0	0.07	0.0	0.0	0.04	0.0	0.0	0.79	0.0	0.0	0.41	0.02
2 €	0.0	0.05	0.0	0.0	0.26	0.0	0.0	0.20	0.0	0.09	0.53	0.0
27	0.0	0.02	0.05	0.0	0.11	0.0	ŭ.J	0.0	U. U	0.0	0.14	0.05
28	0.0	0.38	9.15	0.0	0.0	0.0	0.0	0.0	U.04	0.5	0.0	0.0
29	9.0		0.08	3.8	0.0	0.0	0.0	0.0	მ.21	0.12	0.08	0.08
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.18	0.0	0.72
31	0.0		0.28		0.0		0.3	3.9		9.91		0.07
ICIAI	1.07	1.76	2.27	0.31	3.26	1.38	3.75	1.68	1.27	0.40	4.85	6.20
SIA AV	4.51	2.71	3.15	2.95	1.38	1.77	0.69	1.17	1.12	2.18	3.34	F. 9E

Air lemperature: See table for Watersteds 66.001 and 66.014.
Gaging: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded). 'Actual' amounts
were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of MMCIDHS Symposium, Geilo, Borway, August, 1972. The equation used is: loge (0/A) = loge (0/S) x 1.80, where 0 =
unshielded catchment, S = shielded catchment, and A = actual amount of precipitation.
Station Averages: 10 yr beginning 1988.

Cooperative Research Project of OSCA and OSCI and Idaho Agricultural Experiment Station

1977	D	BILY PREC	H DI TATICH	(IBCBES)		F:	EYHCIDS,	IDREC TOI	LGATE WAT	EFSEEE (1	16063)	
Cay	Jan	F∈b	5ar	3 F I	Łay	Jor	Jtl	A u g	Sep	Cct	¥C¥	Lec
1	0.0	0.0	0.15	0.10	0.21	0.0	0.09	0.0	0.0	0.0	6.0	0.03
2	0.38	0.0	0.02	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0-20	G.16
3	0.15	9.0	0.10	0.0	0.24	0-0	0.03	0.04	3.0	0.0	0.0	0.08
4	0.15	0.0	0.3	0.0	G.11	0.0	0.0	0.0	0.0	0.0	0.C 6.66	0.0
5	0.08	0.0	0.0	0.0	0.33	0.0	3.6	0.0	6.8	0.0	0.00	3.0
€	0.0	0.0	0.0	0.0	0.56	0.06	0.0	0.0	6-0	0.0	6.0	3.0€
7	0.0	0.0	0.01	0.0	0.02	0.02	0.0	0.05	ú_0	0.0	0.0	0.0
Е	0.0	0.03	0.04	0-0	0.0	0.02	0.0	3.0	0.0	0.0	0.0	0.0
9	0.0	0.05	0.32	0.0	0.25	0.11	0.04	0-0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.15	0.35	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.3	0.0	0.14	0.3)	0.0	0.0	6.0	0.0	0.0	0.60
12	0.6	0.0	0.03	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.01
13	0.0	0.3	0.62	0.10	6.0	0.04	0.0	0.0	6.6	0.0	0.07	0.21
14	0.0	0.0	0.32	0.0	0.0	0.0	0.6	0.0	0.04	0.0	0.09	1.15
15	c.c	0.7	0.3	0.0	0.22	0.6	00	0.0	0.0	0.0	0.05	6.65
16	0.0	0.0	3.3	0.0	0.05	0.0	0.0	0.5	0.31	0.0	0.0	C . C
17	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0_6	0.0	0.0	0.0	0.28
18	0.0	0.0	0.06	0.0	0.07	0.28	0.0	0.6	0.0	0.0	0.04	0.07
19	0.0	0.0	0.06	0.0	0.0	0.03	0.0	0.6	0.03	0.0	0.02	0.0
20	0.0	0.0	0.32	0.0	0.0	0.12	0.0	0.6	3.17	0-0	6.0	0-0
21	0.0	0.35	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.71	0.0
22	0.0	0.19	0.0	0.0	0.01	0.0	0.10	0.0	0.0	0.0	0.53	0.03
23	0.0	0.27	0.0	0.0	0.16	0.0	0.0	0.0	0.01	0.0	0.11	0.12
24	0.0	0.03	0.11	0.0	0.02	0.0	0.13	0.38	0.45	0.0	0.46	0.30
25	0.0	0.34	0.3	0.0	0.04	0.0	0.0	0.65	0.0	0.0	0.33	6.61
26	0.0	0.92	0)	0.0	0.26	0.0	0.0	0.17	3.0	0.08	0.34	0.0
27	0.0	0.01	0.03	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.03	0.03
28	0.0	0.04	0.08	0.0	0.0	0.0	0-0	0.0	0.94	0.0	0.0	0.0
29	0.0		0.04	0.0	0.0	0.0	0.0	0.3	0.20	0.12	0.07	0.05
30	0.0		0-0	0.0	0.0	0.0	3.8	0.0	0.01	0.16	0.6	0.44
31	0.0		0.14		0.0		0.0	0.0		0.01		0.04
IAI	0.76	1.03	1.28	0.20	3.02	1.36	0.06	1.29	1.26	0.39	3.77	4.76

Gaging: Values are amounts from unshielded recording gage 155407. Station Averages: Not applicable to unshielded rain gage records.

1977	C	AILY PBEC	I FIT &T IC B	(INCHES)		Б.	EYNCIDS,	ILABC ICI	LGATE WAT	EFSEEC (1	16063)	
Lay	Jan	P∈b	Bar	yer	Bay	Jur	Jul	λug	Sep	Cct	уси	£€¢
1	0.0	0.0	0.24	0.15	0.21	0.0	0.09	0.0	0.0	0.0	0.0	0.03
2	0.45	0.0	0.03	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.20	0.16
ž h	0.19	0.0	0.17	0.0	0.27	0.0	0.02	0.04	0.0	9.0	0.0	0.0
5	0.08	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.66	0.0
€	0.0	0.0	0.0	0.0	0.61	0.06	0.3	0.0	0.0	0.0	0.0	0.06
7	0.0	0.0	0.01	0.0	0.02	0.02	0.6	0.65	0.0	0.0	0.0	0.0
8	0.0	0.03	0.05	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
ç	0.0	0.06	0.42	0.0	0.25	0.11	0.04	0.6	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.15	0.36	3.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.14	0.31	0.0	0.0	0.0	0.0	0.0	0.83
12	0.0	0.0	0.34	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.01
13	0.0	0.0	0.02	0.10	0.0	0.04	0.0	0.0	0.0	0.0	0.07	0.21
14	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.11	1.24
15	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.06	0.90
16	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.31	0.0	0.0	0.0
17	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.35
18	0.0	0.0	0.09	0.0	0.07	0.28	0.0	0.0	3.0	0.0	0.04	0.10
19	0.0	0.0	0.07	0.0	0.0	0.03	0.0	0.0	0.03	0.0	0.03	0.0
20	0.0	0.0	0.02	0.0	0.0	0.12	0.0	0.0	0.17	0.0	0.0	0.0
21	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.87	0.0
22	0.0	0.24	0.0	0.0	0.01	0.0	0.10	0.0	0.0	0.0	0.64	0.05
23	0.0	0.37	0.0	0-0	0.18	0.0	0.0	0.0	0.01	0.0	0.11	0.22
24 25	0.0	0.04	0.14	0.0	0.02	0.0	0.13	0.49	0.45	0.0	0.47	0.34
∠=	0.0	0.05	0.0	0.0	0.04	0.0	0.0	0.72	0.0	0.0	0.36	0.01
26	0.0	0.03	0.0	0.0	0.26	0.0	0.0	0.17	0.0	0.08	0.44	0.0
27	0.0	0.01	0.04	0.0	0.11	0.0	0.0	0.0	0.0	0.G	0.11	0.04
28	0.0	0.06	0.11	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0
29	0.0		0.07	0.0	0.0	0.0	0.0	0.0	0 - 20	0.12	0.07	0.06
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.16	0.0	0.58
31	0.0		0.21		0.0		0.0	0.0		0.01		20.0
TCTAI STA AV	0.88	1.30	1.76	0-25	3.15	1.37	0.68	1.47	1.26	0.39	4.24	5.36

Gaging: Walues are amounts from shielded recording gage 155507. Station Averages: Bot applicable to shielded rain gage records.

197	7	MEAN DAIL	T LISCHAR	GE (CES)		E.	EYNCIES,	TEABC TCI	LGATE WAT	EFSEEC (1	16083)	
Day	Jan	F∈b	āar	Apr	Eay	Jur	Jul	Aug	Sep	Cct	₿C V	ſ€C
1	0.676	1.235	1.750	1.840	6.008	6.069	0.781	3.015	0.023	0.270	0.730	2.383
2	0.826	1.302	1.556	1.658	5.5€2	6.021	1.535	0.009	0.019	0.246	688. 0	2.413
3	1.184	1.278	1.702	1.845	5.383	5.489	1.564	0.009	0.010	0.235	0.972	4-171
4	1.186	1.25€	1.670	2.777	5.344	5.040	1.432	0.009	0.004	0.246	0.648	3.772
5	1.255	1.188	1.743	5.264	5.515	4.613	1.232	0.009	9-994	9.246	1-454	2.857
6	1.301	1.393	1.738	€.951	#E8.ª	4.273	1.119	0.009	0.005	0.213	1.405	2.593
7	1.324	1.394	1.866	€.728	6.353	4.536	0.929	0.012	0.009	0.248	1.034	2-444
8	1-324	1.273	2.015	10.332	7.019	4.407	0.685	9.012	0.105	0.309	3.827	1.752
9	1.324	1.514	2.359	€-272	9.586	4.251	0.538	0.009	0.00€	0.535	0.788	2.108
10	1.347	1.739	1.939	5.990	11.417	5.951	0.662	0.006	0.004	0.349	937.0	1.973
11	1.518	1.703	1.858	8.055	10.493	5.368	3.423	6.004	5.004	0.377	8 53 . 0	3.078
12	1.862	1.588	1.892	7.292	10.695	4.429	0.280	0.004	0.004	0.407	0.808	3.380
13	1.637	1.845	1.638	7.751	9.863	4.428	0.227	0.065	0.036	9.422	0.848	4.181
14	1.563	1.866	1.854	5.80€	8.971	4.122	3.175	0.309	0.009	0.422	0.908	34.580
15	1.514	1.815	1.779	5.792	8.987	3.575	0.092	0.006	3.998	0.422	1.039	55-622
16	1.514	1.838	1.727	7.766	6.830	2.557	0.041	J-094	0.013	3.422	0.991	14.801
17	1.538	2.005	1.842	7.728	8.085	2.886	0.028	0-004	0.023	0.422	0.889	10.314
18	1.612	1.879	1.552	6.087	8.558	2.564	0.032	0.006	0.023	0.422	0.754	7.961
19	1.637	1.801	1.615	5.773	8.516	3.419	0.036	0.009	0.027	0.422	0.698	€.034
20	1.587	1.849	1.622	5.220	8.079	3.020	0.029	0.006	0-031	0.453	0.596	4.382
21	1.567	2.268	1.670	7.577	7.660	2.551	0.018	J_C 04	0.031	0.500	0.563	8.352
22	1.563	1.902	2.078	9.070	7.758	2.280	0.019	0.004	0.031	0.516	1.417	6.005
23	1.588	1-866	2.575	10.132	9.377	2.082	0.019	0.004	0.031	0.516	1.340	5.488
24	1-637	1.538	2.374	10.335	8.757	1.816	0.028	300.0	280.0	0.516	1.533	4.800
25	1.587	2.001	2.118	5.524	€.377	1.583	0.048	0.020	0.110	0.518	5.730	4.808
28	1.490	1.667	2.046	8.385	£.41£	1.397	0.035	9.035	0.087	0.568	9.959	4.400
27	1.418	1.552	2.138	7.206	9.326	1.223	0.023	0.035	0.087	363.0	4.307	4.148
28	1.418	1.782	1.830	6.853	£.384	1.045	0.612	0.027	0.094	0.638	2.511	4.018
29	1.418	10.702	1.827	5.968	7.621	0.940	0.012	0.023	0.251	0.620	2.829	4.030
30	1.468		1.722	5.664	7.285	0.840	0.016	0.023	0.323	0.903	2.750	4.150
31	1.308		1.881	22304	6.608	,	0.016	0.023		0.807		3.892
BEAN	1.4191	1.8513	1.8474	£.6891	8.0115	3.4258	0.3894	0.0118	0.0458	0.4396	1.7296	7.1893
INCHES	0.078	0.082	3.101	0.355	0.439	0.182	0.021	0.001	0.002	0-024	0.092	0.393
STA AV	0.692	0-457	1.095	1.770	3.404	1.617	3.285	0.05€	0.038	0.089	0.150	0.258

Ctation Averages: 11 yr beginning 1567. Conversion Factor: CFS to IN/DAY, multiply by 0.001769.

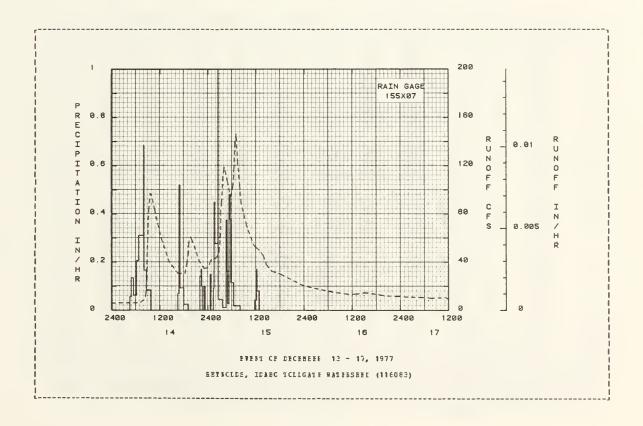
977 SELECTED RONOF!	P EVENT			BEY	KCLES, IDA	EC ICTE	ATE WATERS	EEC (11608	3)
ANTECHDENT CONDITION	ORS		FAI	REALL		 -	BONCE		
fate Fainfall Hc-Day (irches)		Dat∈ #o-Cav		Intersity (in/br)				Fate (cfs)	Acc. (inches)
		EVE	NI CE DECE	MEER 13 -	17, 1977				
FG 155X07			FG 155%	07					
12-14 0-25		12-14	430	0.0	0.0	12-13	2400	6.103	0.0
12-13	0.007		451	0.0572	0.02	12-14		€.344	0.0029
			522	0.1355			712	6.846	0.0033
			E10	0.0625	0.14		758	6.846 8.822	3600.0
			639	0.2089	0.24		824	11.560	0.0041
WATEFSHED CCNCITICNS:									
be event is combined ra	ain		756	0.3117			834	18.421	0.0043
nd snowrelt.			603	0.6857	0.72		840	26.558	0.0044
			839	0.1667	0.82		848	41.941	0.0048
			943	0.0844	0.91		8.58	60.408	0.0054
			1830	0.0	0.91		912	83.623	0.0068
			1847	0.0708	0.93		934	97.184	0.0091
			1702	0.5200	1.08		958	95.297	0.0119
			1800	0.0931	1.15		1040	83.623	0.0165
			1910	0.0257	1.18		1220	59.717	0.0253
			2204	0.0	1.18		1426	39.809	0.0330
			2221	0.1412	1.22		1630	30.663	0.0384
			2228	0.1715	1.24		1818	30.683	0.0425
			2240	0.6999	1.28		1848	39.288	0.0438
			2305	0.0	1.28		1908	46.431	0.3448
			2317	0.1000	1.28		1920	57.682	0.0458
			2323	0.1001	1.29		1942	€ 1. 10 1	0.0472
		12-15	38	0.0	1.29		2018		0.0458
			48	0.1499			2146	41.941	0.0551
			124	0.0	1.31		2302	34.798	0.0587
			137	0.0523	1.33		2400	35.279	0.0612
			141	0.4500		12-15		42.486	0.0839
			233	0.2769	1.80		158	43.035	0.0871
			236	0.5598	1.85			45.853	0.0691
			342	0.0455	1.70		256	51.853	0.0704
			437	0.0109	1.71		314	83.931	0.0717

Conversion Factor: CFS to IN/BF, multiply by 0.03007372.

E -004- 3

rate					BETBCIES, IDAEC TCHIGA					EUNCEF		
	Fainfall	Entoff	Dat∈	Tize	Intersity	Acc.	[at∈	Tim∈	Bat∈	Acc.		
ac-Day	(irches)	(inches)	ëo-Lay	cf Lay	(in/br)	(inct∈s)	Ec-Day	of Day	(cfs)	(inches)		
			EVENT CE	LECEPEEF	13 - 17,	1977 (CC)	(INOFE)					
			12-15	445	0.3749	1.7€	12-15	318	83.623	0.0721		
				456	0.1837	1.79			92.512			
				518	0.0273	1.80			111.095			
				538	0.4600	1.98			118.522			
				548	0.3749	2.91		454	106.553	0.0848		
				628	0.1143	2.09			94.362			
				805	0.0186	2.12			102.954			
				1142	0.0	2.12		632	117.441			
				1210	0.0429					0.0992		
				1217	0.1715	2.1€		704	146.485	0.1024		
				1247	0.0800	2.20		726	124.625	0.1061		
								900	101.032			
								£22	£7.593			
								948	85.052	0.1214		
								1130		0.1293		
								1248	50.001	0.1343		
								1350		C.1379		
								1438	37.751			
								1558	32.458	0.1438		
								1814	25.751			
								2400	20.198	0.1556		
							12-18	622		0.1680		
								1108	13.197			
								1344		0.1757		
								1500	14.585	0.1770		
								1954	12.351			
								2400	11.370	0.1854		
							12-17	554		0.1902		
								734 1118	10.117	0.1915		

Conversion Factor: CFS to IB/BF, soltiply by 0.00037372.



68.004- 4

REYNCIDS, IDAEC SUPPHY CHERK WATERSEED (043304)

IGCATION: Chyhee County, Idaho; 35 miles scuth of Nampa, Idaho; au east-flohing tributary to Reynolds Creek, tributary to the Suake Rivr. Iat. 43 deg. 15 min. 21 sec. N.; Iong.116 deg. 49 min. 1 sec. N.

						S)		TTIBCEL	S, MIEEC	MDBFEY C	PECP AST	trattr 1	043004)	
		Jan	P∈b	Bar	ytr	May	Jun	Ju l	₽tig	Ser	Cct	Nc▼	Dec	Arnual
		1.08	0.98	1.81	0.28 0.311	3.13 0.251	1.86	0.62	33.0	1.50	0.44	3.49	3.26	19.15
19//	Ų	0.115	0.121	0.157	0.311	0.201	0.055	9.2	0.0	0.0	0.001	0.153	0.357	1.601
I VA AF	P	2.8€	1.58	2.31	1.86	1.17	2.24	0.53	0.71	1.19	1.88	2.40	2.56	21.25
(Q	1.346	0.747	1.683	1.757	1.054	0.318	0.056	0.068	0.008	0.056	0.143	0.383	7.561
		Baxis		1 Hour	2	Ecurs	aximum 6 Bc		for Selec 12 Bours	ted Time	Interva Day	1 2 Eays	e 6	Days
		Dat∈ 1		Cat∈ VcI		Vcl.	Dat€		Date Vcl		Vol.	Date V		€ Vol.
1977	1	2-15 (.006 1	2-15 D.O	05 12-15	0.010	12-15	0.026 1	2-15 0.0	39 12-14	9.054	12-14 0.	074 12-1	11 0.157
						MAXIMDES	FCE PE	FICD CF	TECCED					
		1-27 (1970		1-21 0.0 1969	50 1-20 1969	0.056	1-2D 1965		1-20 0.: 1969	45 1-20 1969	0.720	1-20 1 1969	.050 3-	1 1.931

Watershed Conditious: Watershed is sagebrush rangeland used almost exclusively for cattle grazing. Willows are common along watercourses and in seep areas. Vegetation consists largely of hig sagebrush, hitterbush, Idaho fescue, Sandherg bluegrass, bluebunch wheatgrass, squirreltail grass, and snowherry. 10% of the area has a vegetative cover of 0.25%, 35% of the erea has a vegetative cover of 26-50%, 20% of the area has a vegetative cover of 51-75%, and 35% of the area has a vegetative cover of 76-100%.

Maps: Topographic/Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the Dnited States, 1967, DSDA Misc. Fub. 1262, page 68.11-6.

Precipitation: Fecords began 1963. 'Computed Actual' amounts from rain gage 033X76. STA AV values based on 10 yr heginning 1968.

Funoff: Records began 1967. STA AV values based on 11 yr beginning 1967.

Long-Term Frecipitation: National Weather Service Becords at Ecise, Idaho, 50 miles N.F. of watershed.

1977) Di	AILY PREC	IFITATICN	(INCHES)		FFY	KCLIS, JI	ABC MDRFE	Y CHEER W	ATEFSFED	1043064)	
Cay	Jan	P∈b	Par	Mr	May	Jun	Jul	Aug	Sep	Cct	∦c∀	D∈c
1	0.0	6.0	0.19	0.06	0.62	3.0	0.04	0.0	0.0	0.0	0.0	0.0
2	0.51	0.3	0.0	0.0	0.01	0.0	0.35	0.0	0.0	0.0	0.06	0.13
3	0.36	0.0	0.33	0.0	0-20	0.0	0.03	0.0	0.0	0.0	0.0	0.03
4	0.12	0.0	0.0	0-0	0.02	0.0	0.0	0.0	9.0	0.0	0.0	0.0
5	0.09	0-0	0.0	0.0	0.21	0.0	0.3	0.0	0.0	0.0	0.24	0.0
€	0.0	0.0	0.0	0.0	0.32	0.07	0.3	0.05	0.0	0.0	0.0	0.04
7	0.0	0.)	0.0	0.0	0.10	0.01	0.0	0.01	0.0	0.0	0.0	0.0
. 8	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.01	3.49	0.0	0.31	0.02	0.07	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.10	0.12	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	1.28	0.0	0.0	0.0	0.0	0-0	0.54
12	0.0	0.0	0.03	0.0	0.0	0.0H	0.0	0.0	0.0	0.0	C.C	0.0
13	0.0	0.0	0.0	0.22	0.0	0.02	0.0	0.0	0.0	0.0	0.10	0.25
14	0.0	0.0	0-9	0.0	0.0	0.01	0.0	0.0	0.02	0.0	0.25	0.23
15	0.0	0.0	0.0	0-0	0.10	0.0	0.0	0.0	0.0	0.0	0.01	0.42
16	0.0	0.0	0.03	0.0	0.10	0.0	0.0	0.0	0.14	0.0	0.0	0.0
17	0-0	0.0	0.06	0.6	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.71
18	0.0	0.0	0.02	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.11	0.04
19	3-0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0_0	0.0	0.09	0.0
20	0.0	0.0	0.01	0.0	0.0	.0 - 25	0.0	0.0	0.13	0-0	0-0	0.0
21	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0
22	0.0	0.67	0.0	0.0	0.01	0-0	0.0	0-0	0.0	0.0	0.46	30.0
23	0.0	0.31	0.03	0.0	0.09	0.0	0.0	0-0	0.07	0.0	0.12	0.18
24	0.0	0.05	0.11	0.0	0.03	0.0	0.13	0.34	0.63	0.0	0.55	0.10
25	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.38	0.0	0.0	0.27	0.0
2€	0.0	0-12	0.0	0.0	0.54	0.0	0.0	0.10	0-0	0.03	0.30	0.0
27	0.0	0.03	0.11	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.11	0.0
28	0.0	0.32	0.12	0.0	0.0	0.0	0.0	0.0	0.05	0-0	0-0	0.0
25	0.0		0.09	0.0	0-0	0.0	0.0	0.0	0.35	0 - 17	0.03	0.25
30	0.0		9.0	0.0	0.0	0.0	0.0	0-0	0.01	0.24	0.0	0.24
31	0.0		0.12		0.0		0.0	0.0		0.0		0.02
TCTAL	1.08	0.90	1.81	0.28	3.13	1.86	0.62	99.0	1.40	0.44	3.49	3.26
SIA AV	2.86	1.58	2.31	1.86	1.17	2.24	0.53	0.71	1.19	1.88	2.40	2.56

Air Temperature: See table for Watersheds 68.001 and 68.014.
Gaging: Values are "Actual" amounts from a pair of recording gages [shielded and unshielded). "Actual" amounts
were computed as per relationship developed by W. E. Hamon, "Computing Actual Precipitation", Proceedings of WECIDHS Symptosium, Geilo, Horway, August, 1572. The equation used is: loge [D/A] = loge [U/S] x 1.80, where D =
unshielded catchment, S = shielded catchment, and A = actual amount of precipitation.
Staticu Averages: 10 yr beginning 1968.

Cooperative Research Project of DSCA and DSCI and Idaho Agricultural Experiment Station

1977	.ם	AILY PREC	IPITATICS	(INCHES)		RFT	SCLES, 11	AEC BOSES	CHFFK 6	ATFFEED	(043004)	
Lay	Jan	P∈b	ēar	Apr	2 a y	Jup	Jul	Aug	Sep	Cct	BCV	£€C
1 2	0.0 0.32	0.0	0.06	0.02	0.57	0.0	0.34	0.0	0.0	0.0	0.0	0.0
3	0.23	0.0	0.14	0.0	0.11	0.0	0.03	0.0	0.0	0.0	0.0	0.03
4	0.07	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.6	0.0	0.0
5	0.65	0.3	0.3	0.0	0.12	3.6	0.0	0.0	0.0	0.0	0.21	C - O
€	0.0	0.0	0.0	0.0	0.22	9.07	0.0	0.05	0.0	0 - C	0.0	0.04
7	0.0	0.0	0.0	0.0	0.09	0.01	0.0	0.01	0.0	0.0	0.0	0.0
8	C.O	0.04	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.3	0.0	0.19	0.12	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.7	0.0	0.0	0.0	1.21	0.0	0.0	0.0	0.0	0.0	0.54
12	C.O	0.0	0.02	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.9	0.22	0.0	6.02	3.3	0.0	0.0	0.0	0.09	0.24
14 15	0.0	0.0	0.3	0.0	0.0 0.0€	0.01	0.0	0.0	0.02	0.0	0.22	0.23
15		0.0										
16	0.0	0.0	0.03	0.0	30.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0
17	0.0	0.0	0.06	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.40
16 19	0.0	0.0	0.32	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.05	0.02
20	0.0	0.)	0.01	0.0	0.0	0.25	0.0	0.0	0.13	0.0	0.0	0.0
21	0.0	0.23	0.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.47	0.0
22	0.0	0.05	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.28	0.04
23	0.0	0.22	9.02	0.0	0.09	0.0	0.0	0.0	0.07	0.0	0.10	0.12
2 4 2 5	0.0	0.04	0.07	0.0	0.03	0.0	0.11	0.31	0.63	0.0	0.46	0.06 0.0
2.5	0.0	0.0	0.7	0.7	0.02	0.0	0.0	0.23	0.0	0.0	0.23	0.0
26	0.0	0.19	0.0	0.0	0.54	0.0	0.0	0.09	0.0	0.03	0.27	0.0
27	0.0	0.02	0.07	0.0	0.05	0.0	0.0	0.0	C-0	0.0	0.10	0.0
28 29	0.0	0.01	0.03	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0
30	0.0		0.03	0.0	0.0	0.0	0.0	0.0	0.34	0.14	0.03	0.14
31	0.0		0.04		0.0		0.0	0.0		0.0		0.01
CTAI TA AV	0.67	0.71	1.08	0.24	2.71	1.79	0.59	0.79	1.39	0.37	2.65	2.56

Gaging: Values are amounts from nnshielded recording gage 023476. Station Averages: Mot applicable to unshielded rain gage records.

1977	D.	AILY PREC	IFITATICE	(INCHES)		FET	CIDS, ID	HC FOFFE	CREEK 5	TFFSFFD	1043004)	
pay	Jan	P€b	Mar	Apr	Bay	Jut	Jul	2 vg	Sep	Cct	BCA	£€c
1	0.0	0.0	0.13	0.04	0.60	0.0	0.04	0.0	0.0	0.0	0.0	0.0
2	0.39	0.0	0.0	0.0	0.01	0 - 0	u-35	0.0	0.0	0-0	0.06	0.13
2	0.29	0.0	0.22	0.0	0.13	0.0	0.03	0 - 0	0.0	0.0	0.0	0.03
£	0.08	0.0	0.0	0.0	0.01 0.15	0.0	0.0	0.0	0.0	0.0	0.0 0.22	0.0
6	0.0	0.0	0.0	0.0	0.26	0.07	0.0	0.05	0.0	0.0	0.0	0.04
7	0.0	0.0	0.0	0.0	0.09	0.01	0.0	0.01	0.0	0.0	0.0	0.0
6	0.0	0.04	0.0	0.0	0.0	0 . C	0.0	0.0	0.0	0.0	0.0	0.0
ç	0.0	0.01	0.43	0.0	0.30	0.02	0.07	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.10	0.12	0.0	0.0	0.0	0.0	0.0	0 - 0
11	0.0	0.0	0.0	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0	0.54
12	0.6	0.0	0.02	0.0	0.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.22	0.0	0.02	0.0	0.0	0.0	0.0	0.10	0.25
14	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.02	0.0	0.24	0.23
15	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0 - 0	0.0	0.01	0.42
16	0.0	0.0	0.03	0.0	0.09	0.0	0.0	0.0	0.14	0.0	0.0	0.0
17	0.0	0.0	0.0€	0-0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.59
18	0.0	0.0	0.02	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.07	0.03
19 20	0.0	0.0	0.07	0.0	0 - 0	0 - 0	0-2	0.0	0.0	C-0	0.0€	0.0
20	0.0	0.0	0.91	0.0	0.0	0.25	0.0	0.0	0.13	0.0	0.0	0.0
21	0 - 0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0
22	0.0	0.06	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0 - 0	0-36	0.06
23	0.0	0.26	0.03	0.0	0.09	0.0	0.0	0.0	0.07	0.0	0.11	0.16
24 25	0.0	0.04	0.10	0.0	0.03	0.0	0.11	0.32	0.63	0.0	0.51	0.06
2=	0.0	0.0	0.0	0.0	0.02	0 - 0	0 - 0	0.30	0.0	0.0	0.26	0.0
2€	0.0	0.11	0.0	0.0	0.54	0.0	0.0	0.09	0.0	0.03	0.29	0.0
27	0.0	0.02	0.09	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.10	0.0
28 29	0.0	0.02	0.07	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0
30	0.0		0.06	0.0	0.0	0.0	0.0	0.0	0.34	0.16 0.23	0.03	0.20
31	0.0		0.07	0.0	0.0	0.0	0.0	0.0	0.01	0.23	0.0	0.17 0.01
TAI A AV	0.82	0.79	1.41	0.26	2.66	1.62	0.60	0.62	1.39	0.42	3.07	2.89

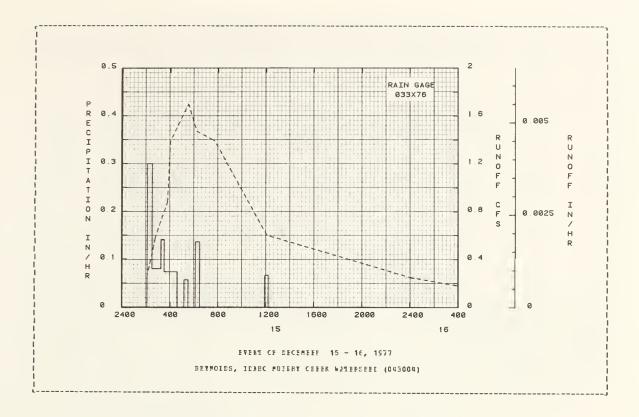
Gaging: Values are amounts from shielded recording gage 033576. Station Averages: Not applicable to shielded rain gage records.

197	7	MEAN DAIL	Y CISCHAF	GE (CES)		FEY	KCIDS, 1	CAHC EUBER	Y CEEEK	ATEFSEED	(043004)	
Day	Jan	F∈b	Mar	Apr	ťay	Jur	Jv1	Aug	Sep	Cct	Nc∀	lec
1	0.031	0.044	0.070	0.097	0.150	0.066	0.0	0.0	0.0	0.0	0.002	0.070
2	0.336	0.044	0.066	0.089	0.122	0.066	0.3	0.0	0.0	0.0	0.002	0.070
3	0.349	0.044	0.363	0.116	0.113	0.066	0.0	0.0	0.0	0.0	0.003	0.070
q	0.053	0.044	0.063	0.179	0.110	0.059	0.0	0.0	0.0	0.0	0.007	0.070
5	0.050	0.041	0.066	0.164	0.118	0.053	0.0	0.0	0.0	0.0	0.023	0.070
E	0.050	0.347	0.078	0.159	0-127	0.050	0.3	0.0	0.0	0.0	0.023	0.370
7	0.050	0.050	0.086	0.145	0.127	3.050	0.3	0.0	0.0	0.0	0.021	0.066
ε	0.050	0.050	0.095	0.139	0.110	0.050	0.0	0.0	0.0	0.0	0.023	0.063
ç	0.050	0.050	0.141	0.139	0.112	0.050	0.3	0_0	0.0	0.0	0.025	0.059
10	0.650	0.053	0.089	0.139	0.139	0.060	0.0	0.0	0.0	0.0	0.025	0.056
11	0.050	6.056	0.068	0.139	0.116	0.132	0.0	0.0	0.0	0.0	0.027	0.115
12	0.050	0.056	0.086	0.145	0.100	0.094	0.0	0.0	0.0	0.0	0.030	0.142
15	0.050	0.068	0.371	0.177	0.090	0.070	0.0	0.0	0.0	0.0	0.034	0.236
14	0.050	0.063	0.060	0.159	0.086	0.056	0.0	0.0	0.0	0.C	0.039	0.233
15	0.050	0.056	0.571	0.152	0.090	0.045	0.0	0.0	0.0	0.0	0.041	0.700
16	0.050	0.060	0.061	0.152	0.100	0.037	0.0	0.0	0.0	0.0	0.039	0.216
17	0.050	0.063	0.068	0.145	0.095	0.030	0.0	0.0	0.0	0.0	0.039	0.173
18	0.953	0.059	0.062	0.139	0.112	0.024	0.0	0.0	5.0	0.0	0.039	0.152
19	0.056	0.056	0.073	0.139	0.095	0.029	0.0	0.0	0.0	0.0	0.036	0.127
20	0.056	0.056	0.073	0.139	0.086	0.050	0.0	0.0	0.0	0.0	0.036	0.121
21	0.053	0.065	0.091	0.133	0.081	0.029	0.0	0-0	0.0	9.0 T	0.041	0.127
22	0.050	0.066	0.117	0.127	0.081	0.023	0.6	0.0	0.0	0-001	0.069	0.127
23	0.050	0.059	0.116	0.121	0.086	0.017	0.0	0.0	U. 0	0.001	0.060	0.150
24	0.044	0.059	0.105	0.116	0.086	0.008	0.0	0.0	0.0	0.001	0.113	0.159
25	0.041	0.059	0.083	0.116	0.386	0.005	0.0	0.0	U. 0	0.001	0.504	0.173
26	0.044	0.056	0.081	0.110	0.114	0.002	0.0	0.5	0.0	0.001	0.276	0.173
27	0.041	0.063	0.091	0.105	0.148	0.0	0.0	0.0	0.0	0.001	0.127	0.159
28	0.039	0.070	390.0	0.105	0.101	0.0	0.0	0.0	0.0	0.001	0 - 10 1	0.145
29	0.046		0.081	0.105	0.086	0.0	0.0	0.0	0.0	0.001	0.081	0.155
30	0.049		0.081	0.165	0.061	0.C	0.0	0.0	0.0	0.001	0.073	0-150
31	0.041		0.083		0.073		0.0	0.0		0.001		0.146
MEAN	0.0475	0.0558	0.0816	0.1332	0.1041	0.0408	0.0	0.0	0.6	0.0084	0.0655	0.1460
INCHES	0.115	0.121	9.197	0.311	0.251	0.095	0.0	0.0	0-0	0.001	0.153	0.357
STA AV	1.346	0.747	1.683	1.757	1.054	0.318	0.056	0.008	0.008	0.056	0.143	0.383

Ctation Averages: 10 yr legipning 1568. Conversion Factor: CPS to IB/CAI, multiply by 0.0777763.

1977 £	ELECTED RUNC	PF EVENI			FEYNC	LES, ITABO	MOFFFY (CREEK WATE	ESEED (043	004)
ANTECE Date Mc-Day	DBN1 CCMDI1 Fainfall (irches)	TICKS Runcff (inches)	Date Mo-Day	FA Time of Cay	IBFAII Intersity (in/br)		Date Mo-Day	FONCE Time of Day	Fate (cfs)	Acc. (inches)
			EVF	NT CF DEC	FEEE 15 -	16, 1977				
	BG 033176			FG 033	176					
12-15	0.03	0.002	12-15	205	0.0	0.3	12-15	204	0.252	0.0
				229	0.3000	0.12		248	0.597	0.0010
				314	0.0800	0.16		346	0.864	0.0033
				331	0.1412	0.22		400	1.391	0.0042
				436	0.0738	0.30		530	1.705	0.0117
WATERSHED	CCEDITIONS:									
1b∈ ∈vent	is combined	rain		5 10	0.0	0.30		612	1.465	0.0153
	1t. The pre			531	0.0572	0.32		742	1.391	0.0223
	ll ir the fo	ID		€07	0.0	0.32		1204	0.597	0.0363
of rain an	d sncw.			629	0.1363	0.37		2400	0.252	0.0527
				1154	0.0	0.37				
				1212	0.0667	0.39				

Conversion Eactor: CFS to IB/BF, multiply by 0.003241.



FERNCIDS, ICAEC SERNCIDS ECONTAIN WATERSHED (166076)

LCCATICE: Cwyhee Ccunty, Idahc; 34 miles scuth of Nampa, north flowing tributary to the east fork of Beynolds Creek, Snake Biver Easin. Iat. 43 deg. 4 min. 16 sec. B.; Long. 116 deg. 45 mir. 27 sec. W.

AREA: 100.00 acres

FC	KTHI	PRECIE	ITATION	ANE BONG	CFF (INC	BES)	R	EYRCIES,	IDAEC BEY	MCIES H	CUNIAIN	WAIFESHE	I (16607	6)
		Jan	Feh	řer	yÈi	Eay	Jun	Jul	Atg	Set	Cct	N C V	D∈c	Arnnal
1977	P Ç	1.94	2.75 0.096	3.92 0.140	0.41	4.15 1.032	2.17 0.280	1.07 0.031	1.25 0.0	1.15	0.65 0.034	7.20 0.182	7.50 0.617	34.60 3.904
SIA AV	P C	6.97 0.270	4.57 0.287	4.69 0.591	2.98 2.372	1.75 9 9.969	2.04 4.886	0.77 0.571	1.18	1.18	2.70 0.136	4.69 0.234	6.09 0.260	35.61 15.829
	ANBI	BAL FAXI		HARGE (i	in/hr)	ANC MAXIMUS			CFF (inch				NIEFVALS	
		Disch Date	arge	1 Bour Cate Vo		2 Bcurs it∈ Vcl.		cors	12 Fcbrs ate Vcl.	1	Day Vol.	:1 2 Day Cat∈ 5		8 Days t∈ Vol.
1977		4-16	0.009	4-16 0.	.009 4-	16 0.017	4-16	0.048 12	-14 0.07	9 12-14	0.140	12-14 0	.216 4-	15 0.548
						BAXIEUBS	FOF P	FFICE CF	FECCED					
		6- 2 (1975	0.092	6- 2 0. 1975		2 0.143	6- 2 1975		- 2 0.69 975	2 6- 2 1975		6- 1 2 1975		30 7.174 75

Watershed Conditions: Rangeland watershed with seasonal grazing of cattle and sheep. Scrub aspen, willow, scattered douglas fir, and sagebrush with natural monntain meadows. Vegetative cover varies with annual precipitation. Type of cover is 32% shruk and krush, 17% grass and forkes, and 9% rock and rock fragments. Haps: Topographic/Hydrologic - Hydrologic fata for Experimental Agricultural Watersheds in the United States, 1966, USIA Misc. Fuk. 1226, page 66.13-4.

Precipitation: Records began 1963. "Computed Actual" amounts from rain gage 176X07. STA AV values based on 10 yr beginning 1968.

Runoff: Records tegan 1966. STA AV values based on 12 yr leginning 1966.

Long-Term Frecipitation: National Weather Service records at Foise, Idahc, 50 miles N.F. of watersted.

197	7 CAILY	AIB TEMP	ERATUBE (I	BGREBS F)			DIDS, IDAE		S MCONTAI	N WATERS	EE (16607	6)
Day	Jan	Feb	Mar	Apr	#ay	Jor	Jol	Aug	S∈p	Cct	Nev	Dec
	max mir	wax min	max min	max min	max min	wax min	wax min	max min	max min	max min	Bax min	max sin
1 1	25 15	27 21	23 16	25 18	49 35	71 39	65 45	83 63	64 38	44 30	44 28	33 25
1 2	31 21	29 20	23 17	25 17	46 33	57 33	57 47	81 85	74 54	54 35	43 21	41 33
1 3	31 12	37 19	24 19	37 25	40 28	69 49	56 47	79 61	72 52	50 36	49 22	28 30
4	19 12	40 25	27 17	48 31	29 24	73 49	60 36	76 59	77 57	50 34	48 35	32 22 (
5	17 €	41 28	32 21	50 39	29 23	77 59	57 35	71 57	76 58	57 44	38 24	33 21 (
€ 7 8 9	26 <u>5</u> 21 <u>9</u> 16 6 21 <u>5</u> 22 16	37 26 41 29 41 29 37 17 38 26	39 30 37 29 38 26 29 18 23 15	51 43 57 41 56 36 39 26 43 24	30 22 36 24 35 27 45 33 33 25	79 57 71 51 61 50 55 47 49 44	56 37 64 43 75 54 65 46 65 43	70 52 66 48 67 47 73 56 74 55	78 60 76 58 58 36 64 44 70 56	51 34 43 30 52 32 46 33 43 27	36 25 37 24 29 18 37 19 50 37	37 33 33 14 25 15 35 23 42 35
	27 15	41 31	34 17	44 31	38 24	56 45	73 50	74 54	71 51	50 34	51 37	36 26
11	28 16	45 34	36 18	51 29	53 33	59 45	74 49	80 61	63 45	63 46	47 36	28 24
12	27 21	40 30	21 11	44 25	52 36	61 47	63 39	80 62	70 48	60 47	42 26	36 28
13	27 22	41 30	20 13	37 15	47 29	81 45	70 49	75 59	65 47	59 45	38 29	36 34
14	30 23	45 33	31 16	53 33	35 25	63 44	76 57	77 59	59 41	64 50	41 32	35 22
16	31 25	45 39	40 20	51 26	32 24	66 50	81 64	80 62	43 33	65 47	32 20	25 21
17	40 30	43 31	22 14	38 21	36 29	65 49	80 57	78 64	48 33	63 47	30 15	30 20
18	44 33	47 31	25 17	39 25	40 31	65 47	77 54	77 62	59 43	68 52	18 10	21 16
19	43 28	51 37	27 19	40 19	44 30	67 47	70 46	77 84	55 40	61 48	12 8	21 16
20	35 26	52 34	29 19	51 29	46 35	59 47	77 59	79 63	41 34	57 44	13 6	17 14
21	37 24	40 21	41 21	56 40	50 41	65 46	79 61	78 62	44 31	51 27	30 13	33 17
22	31 23	22 19	47 35	63 45	46 41	66 51	74 57	76 58	41 27	57 37	31 24	26 21
23	34 22	24 15	44 23	67 48	44 34	71 55	73 57	77 54	52 32	54 40	29 22	27 24
24	38 23	21 16	20 19	71 52	43 37	75 55	60 51	64 45	46 33	56 39	37 29	25 24
25	35 16	22 16	21 18	67 42	49 34	77 57	67 52	47 42	58 42	59 39	43 37	30 22
26 27 28 29 30 31	31 21 31 21 37 25 39 25 41 29 37 21	23 20 31 21 37 19	37 21 34 15 23 14 21 17 25 17 26 17	50 30 56 35 63 45 58 42 80 45	44 31 37 27 42 26 47 29 61 37 73 51	74 57 69 51 71 49 69 51 70 49	70 49 73 57 79 57 67 47 71 46 76 55	47 38 50 35 56 41 60 46 55 37 54 27	57 42 83 48 56 41 42 32 37 30	44 34 56 38 43 37 41 30 31 27 31 25	36 29 31 28 33 26 36 27 31 25	31 21 30 21 39 23 34 28 25 21 21 5
AV.	31 19	37 26	30 19	50 33	43 31	66 49	69 50	70 54	59 43	52 38	38 24	31 22
BEAN	25.0	31.4	24.7	41.2	37.1	57.6	59.9	62.2	51.1	45.2	30.2	26.8
SIA AV	28 19	32 21	33 21	36 24	51 36	63 44	73 54	71 52	61 43	47 33	37 27	29 20

Station Averages: 12 yr beginning 1986. Notes: Temperature data are taken from hygrothermograph record at station 176%14.

Cooperative Research Project of OSDA and OSDI and Idaho Agricultural Experiment Station

1977	D;	AILY PBBC	IFITATION	(IRCHES)		FIYDC	tts, jtlec	BEYNCLE:	S ECOBIAL	A & & Z £ E S E E E	(166076)
Lay	Jan	P∈b	Bar	Afr	May	Jue	Jul	å u g	S∈p	Oct	bov	Ľ∈C
1 2 3 4 5	0.0 1.26 0.24 0.26 0.17	0.0 0.0 0.0 0.0	0.55 0.0 0.48 0.0	0.15 0.0 0.0 0.0	0.21 0.01 0.26 0.20 0.48	0.0 0.0 0.0 0.0	0.08 0.48 0.13 0.01	0.0 0.0 0.08 0.6	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.17 0.0 0.0 0.6	0.09 0.18 0.13 0.0
6 7 8 9	0.0 0.0 0.0 0.0	0.0 0.0 0.22 0.12 0.01	0.0 0.11 0.15 0.72 0.0	0.0 0.0 0.0 0.32	0.79 0.04 0.0 0.10 0.35	0.14 0.02 0.08 0.15 0.51	0.0 0.0 0.0 0.u E	0.0 0.07 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0
11 12 13 14 15	0.0 0.0 0.01 0.0	0.0 0.0 0.0 0.0	0.3 0.38 0.04 9.18 0.0	0.0 0.0 0.20 0.0	0.26 0.0 0.01 0.0 0.37	0.20 0.08 0.06 0.01	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 9.0 0.0 0.04 0.0	0.3 0.0 0.0 0.0	0.0 0.0 0.14 0.11	0.72 0.07 0.61 0.55 0.68
16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.08 0.19 0.17 0.04	0.0 0.3 0.0 0.0	0.12 0.05 0.17 0.0	0.0 0.0 0.71 0.02 0.09	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.29 0.91 0.0 0.05 0.05	0.0 0.0 0.0 0.0	0.0 0.0 0.09 0.06 0.02	0.0 0.86 0.10 0.02 0.0
21 22 23 24 25	0.0 0.0 0.0 0.0	0.62 0.50 0.79 0.06 0.15	0.0 0.0 0.0 0.34	0.0 0.0 0.0 0.0	0.0 0.01 0.31 0.0 0.05	0.0 0.0 0.0 0.0	0.0 0.16 0.6 0.13 0.0	0.0 0.0 0.44 0.50	0.0 0.0 0.0 0.38	0.0 0.0 0.0 0.0	1.51 1.17 0.53 1.01 0.37	0.0 9.20 0.59 1.00 0.02
26 27 28 25 30 31	0.0 0.0 0.0 0.0 0.0	0.05 0.05 0.18	0.0 0.37 0.10 0.76 0.06 0.50	0.0 0.0 0.0	0.20 0.16 0.0 0.0 0.0	0.0	0.0 0.0 0.0 0.0 0.0	0.16 0.0 0.0 0.0 0.0	0.0 0.0 0.04 0.31 0.02	0.14 0.0 0.01 0.25 0.21 0.04	0.66 0.13 0.0 0.14 0.0	0.0 0.11 0.0 0.07 1.28 0.14
TCTAI STA AV	1.94 6.97	2.75 4.57	3.92 4.69	0.41 2.96	4.15 1.75	2.17 2.04	1.07 0.77	1.25 1.18	1.19 1.18	0.65 2.70	7.20 4.69	7.90 E.09

Caging: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 176107.

'Actual' amounts were computed as per relationship developed by W. F. Hamon, "Computing Actual Frecipitation",
Proceedings of WBC-IDHS Symposium, Geilu, Morway, August, 1972. The equation used is: loge (0/A) = loge [0/S] x
1.80, where 0 = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation.

Station Averages: 10 yr beginning 1968.

1977	D.	AILY PEEC	IFITATICE	(IBCRES)		ĖFYNC	LDS, ILABO	REYROLD	S SCONTAIL	WATERSHEE	(166076)	
£a y	Jau	F∈b	Mar	Уřг	Łaż	Jun	Jul	Δuç	Sep	Cct	Nc v	Ľ€C
1	0.0	0.0	0.17	0.05	0.21	0.0	90.0	0.0	0.0	0.0	0.0	0.06
2	0.79	0.0	0.0	0.0	0.01	0.0	0.48	0.0	0.0	0.0	0.14	0.15
3	0.15	0.0	0.26	0.0	0.13	0.0	0.12	0.06	0.0	0.0	0.0	0.11
4	0.16	0.0	0.0	0.0	0.10	0.0	0.01	0.0	0.0	0.0	0.0	0.0
5	0.10	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.53	0.0
6	0.0	0.0	0.0	0.0	0.66	0.11	0.0	0.0	0.0	0.0	0.6	0.0€
7	0.0	0.0	0.05	0.0	0.04	0.02	0.0	0.06	0.0	0.0	0.0	0.0
8	0.0	0.16	0.08	0.0	0.0	0.08	0-0	0.0	0.0	0.0	0.0	0.0
ç	0.0	0.10	0.36	0.02	0.07	0.15	0.08	0.0	0.0	0.0	0.0	0.0
10	0.0	0.01	0.0	0.0	0.26	0.51	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.20	0.30	0.0	0.0	0.0	0.0	0.0	0.55
12	0.0	0.0	0.04	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.04
13	0.01	0.0	0.02	0.14	0.01	0.06	0.0	0.0	0.0	0.0	0-07	0.39
14	0.0	0.0	0.09	0.0	0.0	0.01	0-0	0.0	0.04	0.0	0.06	0.87
15	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.64	0.55
16	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.29	0.0	0.0	0.0
17	0.0	0.0	0.04	0.0	0.05	0.0	0.0	0.0	0-01	0.0	0.0	0.45
18	0.0	0.0	0.05	0.0	0.14	93.0	0.0	0-0	0.0	0.0	0.05	0.0€
19	0.0	0.0	0.08	0.0	0.0	0.02	0.0	0.0	0.05	0.0	0.03	0.01
20	0.0	0.0	0.32	0.0	0.0	0.05	0.0	0.0	0.05	0.0	0.01	0.0
21	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0
22	0.0	0.26	0.0	0.0	0.01	0.0	0.15	0.0	0.0	0.0	0.67	0.10
23	0.0	0.33	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.26	0.30
24 25	0.0	0.03	0.19	0.0	0.0	0.0	0.13	0.44	0.33	0.0	0.72	0.54
25	0.0	0.07	0.0	0.0	0.04	0.0	0.0	0.48	0.0	0.0	0.28	0.01
26	0.0	0.02	0.0	0.0	0.15	0.0	0.0	0.16	0.0	0.10	0.83	0.0
27	0.0	0.02	0.04	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.13	0.06
28	0.0	0.96	0.05	0.0	0-0	0.0	0.0	0.0	0.04	0.01	0.0	0.0
25 30	0.0		0.03	0.0	0.0	0.0	0.0	0.0	0.30	0.19	0.12	0.03
	0.0		0.03	0.0	0.0	0.0	0.0	0.0	0.02	0.18	0.0	0.56
31	0.0		0.24		0.0		0.0	0.0		0.03		0.06
TA AV	1.21	1-40	1.88	0.25	3.06	2.11	1.0€	1.20	1.13	0.49	5.14	4.58

Gaging: Values ære amounts from unshielded recording gage 176407. Station Averages: Not arrlicable to unshielded rain gage records.

1977	Ð	AILY PREC	IFITATION	(INCEES)		EFYNC	IDS, ITABO	BEYNCIC:	S BCUNTAI	W PTEBSE	£ (166076)
Гау	Jan	F∈b	Mar	Apr	ťay	Jur	Je1	Δug	Sۂ	Cct	Kcv	Γ€C
1	0.0	0.0	0.34	0.15	0.21	0.0	30.0	0.0	0.0	0.0	0.0	30.0
2	1.03	0.3	0.0	0.0	0.01	0.0	0.46	0.0	0.0	0.0	0-14	0.17
3	0.18	0.)	0.35	0.0	0.19	0.0	0.13	0.06	0.6	0.0	0.0	0.11
5	0.19 0.11	0.0 0.0	0.0	0.0	0.13 0.36	0.0	0.01 0.0	0.0	0.0	0.0	0.0 0.56	0.0
5	0.11	9.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.9	0.50	0.0
€	0.0	0.0	0.0	0.0	0.69	0.11	0.0	0.0	0.0	0.0	0.0	0.67
7	0.0	0.0	0.08	0.0	0.04	0.02	0.0	0.06	0.0	0.0	0.0	0.0
ε	0.0	0.18	0.12	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.10	0.53	0.02	0.07	0.15	30.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.01	0.0	0.0	0.30	0.51	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.23	0.30	0.0	0.0	0.0	0.0	0.0	0.65
12	0.0	0.0	0.06	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.04
13	0.01	0.5	0.03	0.16	0.01	0.06	0.3	0.0	0.0	0.0	0.11	0.51
14	0.0	0.0	0.14	0.0	0.0	0.01	0.0	0.0	0.04	0.0	0.10	0.89
15	0.0	0.0	0.0	0.0	3.32	0.0	0.0	0.0	0.0	0.0	0.05	0.63
16	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.29	0.0	0.0	0.0
17	0.0	0.0	0.37	0.0	0.05	0.0	0.0	0.0	0.01	0.0	0.0	0.64
18	0.0	0.0	0.14	0.0	0.17	9.€€	ذ.0	0.0	0.0	0.0	0.06	30.0
15	0.0	0.0	0.15	0-0	0.0	0.02	0.0	0.0	0.05	0.0	0.64	0.61
20	0.0	0.0	0.03	0.3	0.0	0.09	0.0	0.0	0.05	0.0	0.01	0.0
21	0.0	0.46	0.0	0.6	0.0	0.0	0.6	0.0	0.0	0.0	1.60	0.0
22	0.0	0.38	0.0	0.0	0.61	0.0	0.15	0.0	0.0	0.0	0.68	0.14
23	0.0	0.53	0.0	0.0	0.27	0-0	0.0	0.0	0.0	0.0	0.44	0.43
24	0.0	0.05	0.26	0.0	0.0	0.0	0.13	0-44	0.35	0.0	0.88	0.76
25	0.0	0.11	0.0	0.0	0.05	0.0	0.0	0.48	0.0	0.0	0.32	0.01
26	0.0	0.04	0.0	0.0	0.18	0.0	0.0	0.16	0.0	0.12	0.64	0.0
27	0.0	0.03	0.06	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.13	0.09
2€	0.0	0.11	0.07	0.0	0.0	0.0	0.0	0.0	0.04	0.01	0.0	0.0
25	0.0		0.06	0.0	0.0	0.0	0.0	0.0	0.31	0.22	0.13	0.05
30	0.0		0.05	0.0	0.0	0.0	0.0	0.0	0.02	0.19	0.0	33.0
31	0.0		0.39		0.0		0.0	0.0		0.03		0.10
TCTAL STA AV	1.52	2.90	2.93	0.33	3.53	2.11	1.0€	1.20	1.16	0.57	6.69	€.34

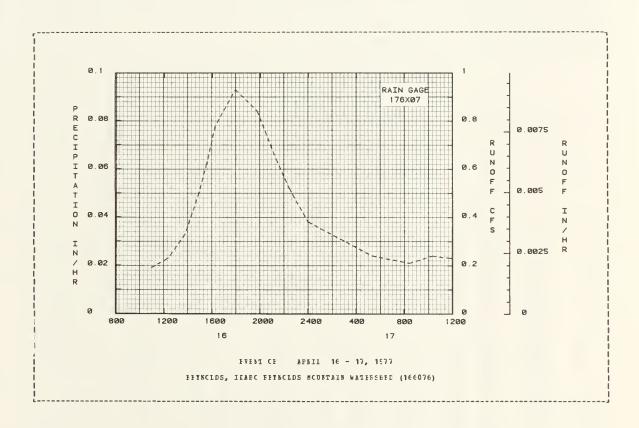
Caging: Values are amounts from shielded recording gage 176507. Station Averages: Bot applicable to shielded rain gage records.

197	7	BEAN DAII	Y LISCHAR	GE (CFS)		FFYNC	IDS, IDABC	FEYBOLDS	BOOFTAIN	Walersee	£ (166076)
Day	Jan	F∈b	Bar	Agr	Bay	Jur	Je1	žu9	Sep	Cct	FCV	ſ€C
1	0.008	0.013	0.018	0.015	0.114	0.056	0.005	0.0	0.0	0-0	0.011	0.043
2	0.008	0.012	0.018	0.018	0.102	0.052	0-014	0.0	0.0	0.0	0.013	0.040
2	0.008	0.012	0.018	0.018	0.094	0-047	0.014	0.0	0.0	0-0	0.013	0.077
5	0.008	0.012 0.011	0.018 0.018	0.021	0.092 0.089	0.042	0.013 0.010	0.0	0.0 0.0	0.0	0.012	0.071 0.051
5	0.000	0.011	0.010	0.050	0.009	0.037	0.010	0.0	0.0	0.0	0.012	0.051
€	306.0	0.010	0.018	0.124	0.080	0.034	0.010	0.0	0 - 0	0.001	0.013	0.043
7	0.008	0.010	0.018	0.251	0.102	0.038	0.009	0.0	0.0	0.002	0.013	0.037
ε	0.008	0.010	0.018	0.450	0.153	0.043	300.0	0.0	0.0	0.003	0.012	0.033
5	0.008	0.011	0.018	0.307	0.323	0.042	0.007	0.0	0.0	0.009	0.011	0.030
10	0.008	0.012	0.018	0.166	0.275	0.098	0.00€	0.0	0.0	0.007	0.009	0.027
11	0.008	0.012	0.018	0.219	0.280	0.086	0.005	0.0	0.0	0.003	0.010	0.026
12	0.008	9.013	0.018	0.326	0.250	0.069	0.005	0.0	0.0	0.004	0.013	0.025
13	0.008	0.013	0.018	0.248	0.188	0.055	0.003	0.0	0.0	0.004	0.015	0.025
14	0.008	0.013	3.018	0.145	6.148	0.050	0.002	0.6	0.0	0.004	0.016	0.299
15	0.008	0.014	0.018	0.234	0.139	0.040	0.002	0.0	0.0	0.004	0.017	0.539
16	0.009	0.015	0.018	0.434	0.168	0.031	0.002	0.0	0.0	0.005	0.019	0.219
17	0.013	0.016	0.018	0.290	0.155	0.027	0.001	0.0	0.0	0.005	0.019	0.138
18	0.018	0.016	0.018	0.205	0.180	0.048	0.001	0.0	0.0	0.005	0.019	0.107
15	0.013	0.016	0.018	0.186	0.152	0.067	0.002	0.0	0.0	0.005	0.019	0.090
20	0.013	0.017	0.018	0.251	0.127	0.045	0.001	0.0	0.0	0.005	0.019	0.083
21	0.013	0.017	0.018	0.338	0.109	0.032	0.0 I	0.0	0.0	0.005	0.018	0.074
22	0.013	0.017	9.020	0.320	0.100	0.028	0.001	0.0	0.0	0.006	0.013	530.0
23	0.013	0.017	0.023	0.287	0.138	0.025	0.001	0.0	0.0	0.006	0.013	0.058
24	0.013	0.018	0-024	0.257	0.115	0-021	0.001	0.0	9.0	0.006	0.018	0.055
25	0.013	0.018	0.023	0.20€	0.099	0.016	0.001	0.0	0.0	0.006	0.031	0.052
2 €	0.013	0.018	0.022	0.145	0.110	0.014	0.001	0.0	0.0	0.006	0.155	0.050
27	0.013	0.018	0.020	0.127	0.125	0.011	0.001	0.0	0.0	0.007	0.078	0.049
28	0.013	0.018	0.019	0.124	0.101	0.008	0.0	0.0	0.0	0.008	0.049	0.049
29	0.013		0.019	0.111	0.089	0.007	0-9	0.0	0.001	0.008	0.050	0.047
30	0.013		0.019	0.101	0.075	0.006	0.0	0.0	0.0 I	0.008	0.049	0.045
31	0.013		0.019		0.0E3		0.0	0.0		0.005		0.044
BEAR	0.0106	0.0144	0.0190	0.1981	0.1398	0.0392	0.0042	0.0	0.0001	0.0046	0.0255	0.0836
INCHES	0.078	0.056	0.140	1.414	1.632	0.280	0.031	0.0	0.000	0.034	0.182	0. 817
SIA AV	0.370	0.287	0.581	2.372	9.969	4.886	0.571	0.097	0.065	0.136	0.234	0.260

Station Averages: 12 yr beginning 1566. Conversion Factor: CFS to IB/LAY, multiply ty 0.238017.

977 SFLFC1FC PU				IS, JEARC				
ANTECHEENT CONDI	TICES		BAINFALL			BUNCE		
Tate Bainfall Fc-Day (inches)	Funcff (inches)		ire Intensity Lay (in/br)	lcc. (inches)				Acc. (inches)
		FVFN1 C	P BFRIL 16	- 17, 1977				
4-16	0.028				4-16	1055	0.195	0.0
						1220	0.226	0.0030
						1345	0.334	0.0069
						1450	0.452	0.0113
						1535	0.631	0.0155
WATERSHEE CONCITIONS	:							
The event is strictly	,					16 15	0.776	0.0202
shcwrelt.						1755	0.929	0.0342
						1945	0.839	0.0503
						2 1 2 0	0.645	0.0620
						2225	0.516	0.0682
						2400	0.383	0.0753
					4-17	5 20	0.241	0.0918
						825	0.206	0.0986

Corversion Factor: CFS to IN/BF, multiply by 0.005917.



68.013- 4

FEYNCIDS, IDABC LCWEB SHEEF CEFFR WATERSHED (117066)

LOCATION: Owyhee County, Idaho; 40 miles sonth of Nampa, Idaho; a tributary to Beynolds Creek, a tributary to the Snake Biver. Iat. 43 deg. 6 min. 53 sec. N.; Ionç. 116 deg. 44 min. 14 sec. N.

AFFA: 33.00 acres

ec	FTRIY	PFFCIF	ITATICN	AND EUNOR	F (INCBE	S)	BF	YNCIES,	IDAEC IC	FF SHEE	CHEEK	WATERSHEI	(117066)
		Jan	F∈b	čar) pr	ĕa y	Jun	Jnl	lt9	Ser	0ct	Nc⊽	D∈c	⊉nnnal
1977	P Q	0.50	0.65 0.3	0.52	0.10	2.47 0.0	1.82	0.38	0.58	0.62 0.0	0.22	1.57 0.0	2.02 0.0	11-45 0.0
SIA AV	P C	1.60 3.112	0.85 0.091	1-41 0-122	1.08 v.020	0.86 0.0	1.35 0.001	0.41	0.68 0.0	0.60	1.22 0.0	1.28 G.0	1.44 0.001	12.97 0.346
	ANNU	Bexi Disch	mum arg∈	1 Bcur	2	Eonrs	laximus 6 Ho	Vclnue urs	for Selections 12 Fours	t∈d Tim∈ 1	Interva Day	al 2 Days	e	La ys
1977		Date 1- 1		1- 1 0.0		0.0	Date 1- 1		1- 1 0.0		Vol. 0.0	Date Vo		e Vol. 1 0.0
						PAXIPOES	FCE PE	FICE CF	FECCED					
		1-22 1972	0.063	1-22 0.0 1972	153 1- 22 1972	0.097	1-22 1972	0.205	1-22 0.2 1972	51 1-22 1972	0.326	1-20 0. 1972	.379 1-1 197	€ 0.51€ 2

Watershed Conditions: Watershed is entirely sagebrush rangeland used almost exclusively for cattle grazing.

Vegetation consists of bluehunch wheatgrass, Sandberg bluegrass, cheatgrass, yarrow, and little sagebrush. 50% of
the area has a vegetative cover of 0-25% and 10% of the area has a vegetative cover of 26-50%.

Maps: Topographic/Bydrologic - Bydrologic Data for Experimental Egricultural Watersheds in the United States, 1967,
USLA Misc. Fub. 1262, rage 66.314-6.

Precipitation: Fecords began 1963. "Computed Actual" amounts from rain gage 127%07. 51% AV values based on 10 yr
beginning 1966.

Runoff: Records began 1967. 51% AV values based on 11 yr beginning 1567.

Long-Term Frecipitation: National Weather Service records at Ecise, Idaho, 50 miles N.F. of watersted.

197	7 CAILY	AIR TEMPI	ERATUBE (D	EGREES F)		FFYNC	IDS, IDAHC ICW	EE SHEEP CEEF	K WATERSEF	E 1170€	ε) <u> </u>
Day	Jan max mir	E∈b max min	Mar max min	Arr max min	Bay max min	Jnr max min	Jol An max min max		Cct max min	NCV NCV	Lec Dex min
1 1 2 1 3 1 4	30 15 34 26 29 17 23 17	36 26 34 22 34 21 40 26	31 23 32 23 29 26 34 22	37 25 39 24 50 29 60 37	56 42 56 40 50 31 41 26	60 46 60 37 75 52 77 56	86 56 90 66 52 89 66 53 67 64 42 83	69 68 41 70 79 58 66 85 57 64 82 63	50 36 56 47 53 39 56 37	53 34 50 2€ 44 2€ 5€ 35	42 21 50 40 47 38 42 30
5 6 7 6	19 11 24 13 25 10 21 9 30 12	40 27 39 30 42 27 38 26 41 33	50 38 48 36 49 35 57 29	62 42 62 46 67 43 68 43 45 22	35 28 35 29 48 30 50 34 55 39	86 62 88 66 78 60 69 57 62 53	63 40 77 62 40 67 71 46 72 85 56 74 73 53 79	32 87 60 46 80 63 53 85 60 53 64 40 61 70 48	64 42 69 40 49 35 66 36 53 36	44 34 41 25 42 24 30 21 40 24	45 30 46 35 42 20 31 19 43 25
i 10 I I 11 I 12	30 22 32 19 33 20	48 34 48 38 54 40	32 20 38 20 46 24	50 26 54 35 58 33	41 33 48 31 62 39	56 50 59 50 63 49	73 46 61 82 54 61 84 54 64	56 86 56 64 70 50	47 31 54 39 60 42	50 32 57 35 53 41	52 34 46 34 39 33
13 14 15 16	32 27 36 26 38 33	50 35 48 32 54 38	25 18 31 17 40 26 45 25	52 32 45 25 60 36 58 30	62 41 66 36 42 33	66 52 64 50 68 48	67 43 67 76 54 81 81 63 64 91 67 67	66 74 53 64 74 53 64 62 46 56 50 38	61 50 64 48 68 50 63 52	49 33 45 33 50 39	46 35 46 42 43 27 31 24
1 17 1 18 1 19 1 20	46 38 50 36 40 30 34 25	54 41 52 37 52 36 63 41	32 21 36 23 40 28 42 25	47 27 46 26 48 25 58 33	91 34 46 36 59 34 60 90	72 53 74 56 74 54 67 52	89 62 85 87 60 84 73 55 85 83 62 87	66 54 28 69 65 49 66 69 45 69 48 38	66 48 65 53 66 53 56 43	32 20 24 10 16 9 16 5	36 25 26 20 26 20 25 19
21 22 23 24 25	36 26 34 27 39 26 31 13 28 14	45 28 31 25 32 23 28 22 30 21	51 28 59 38 54 26 36 24 40 24	65 46 72 52 76 53 60 57 76 49	65 47 61 47 50 39 46 43 66 36	73 50 74 56 78 60 80 61 81 62	87 66 61 82 62 63 80 60 82 68 57 70 76 54 52	69 53 34 63 48 29 60 54 39 50 53 37 46 66 45	53 41 56 41 61 48 65 46 67 53	35 12 37 29 31 26 42 31 50 41	27 16 35 22 36 31 33 30 40 31
26 27 26 29 30	34 10 39 20 41 30 42 29 39 27 35 25	29 24 41 30 46 28	48 26 43 23 32 20 30 22 34 23 36 24	56 38 61 40 69 50 66 51 66 49	54 34 48 35 53 33 56 36 69 44 82 60	84 61 77 55 80 64 75 58 75 54	77 55 53 81 61 53 80 61 64 86 62 66 75 50 62 81 61 62	40 64 52 46 66 47 51 46 36 42 45 35	46 39 52 35 52 41 45 36 38 33 29 30	44 30 38 31 42 31 47 33 40 32	34 24 27 24 30 25 39 25 32 23 25 9
AV. MEAN STA AV	34 22 28.2 33 23	43 20 36.8 39 27	40 25 32.5 42 28	59 38 46.1 48 32	53 37 45.1 60 41	73 55 63.8 69 50	77 55 77 66.3 67 81 60 78		57 42 49.5 51 37	41 26 34.7 42 30	36 27 32.5 34 23

Station Averages: 11 yr Leginning 1967. Rotes: Temperature data taken from hygrothermograph record at Station 127X07.

Cooperative Research Project of OSEA and OSEI and Idaho Agricultural Experiment Station

	1977	E	ILY PEEC	IPITATICE	(INCHES)		FFYNC	ICS, 1126	C ICHES S	BEEP CEEE	K WATEFSEI	E 117066)
1	Cay	Jau	F€b	баг	Apr	Say	Jun	Jul	Aug	Sep	Cct	BCA	Σ∈c
	1	0.0	0.0	0.10	0.01	0.27	0.4	0.02	0.0	0 - 0	0.0	0.0	0.01
	2	0.09	0.0	0.0	0.0	0.0	0 - 0	0.17	0.0	0.0	0.0	0.13	0.04
	3	0.23	0.0	0.07	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.02
	4	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0
	=	0.00	0.0	0.0	0.0	9.25	0.0	0.0	0.0	0.0	0.0	0.10	0.0
	ε	0.0	0.0	0.0	0.0	0.51	0.03	0.0	C _ O	0.0	0.0	0.0	0.01
	7	0.0	0.0	0.0	0.0	6.04	0.01	0.0	0.02	0.0	0.0	0.0	0.0
	Ε	0.0	0.06	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.06	30.0	0.0	0.27	33.0	0.03	0.0	0.0	0.0	6-6	3.0
1	0	0.0	0.0	0.0	0.0	0.02	0.24	0.0	0.0	0.0	0.0	0.0	0.0
1	1	0.0	0.0	0.0	0.0	0.22	0.46	0.0	0.0	0.0	0.0	0.0	0.42
i		0.0	0.0	0.02	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0
1		0.0	0.0	0.0	0.09	0.0	0.05	0.0	0.0	0.0	0.0	0.03	0.08
1	4	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.05	0.0	0.01	0.33
1	5	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.02	0.46
1	6	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0
11	7	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.6	0.15
1.0		0.0	0_0	0.0	0.0	0.01	0.16	0.0	0.0	0.0	0.0	0.61	0.02
15		0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0 - 0	0.02	0.0
20	0	0.6	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05	0.0	0.02	0.0
2	1	0.0	0.19	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0
2:		0.0	0.03	0.0	0.0	0.04	0.0	0.04	0-0	0.9	0.0	0.23	0.02
23		0.0	3.27	0.0	0.0	0.08	0.0	0.0	0.0	0.01	0.0	0.02	0.09
24		0.0	0.0	0.13	0.0	0.02	0.6	0.11	0.20	6.23	0-0	0.14	C.07
25	E	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.22	0.0	0.0	0.13	0.0
21		0.0	0.94	0.0	0.0	0.07	0.0	0.0	0.14	0.0	0.07	0.14	0.0
2		0.0	0.0	0.01	0.0	0.03	0 - 0	0.0	0.0	0.0	0.01	0.01	0.04
28		0.0	0.0	0.03	0.0	0.0	0.0	0.0	0 - 0	0.03	0.0	0.0	0.02
2 9		0.0		0.32	0.0	0.0	0.0	0.0	0.0	0.13	0.02	0.05	30.0
30		0.6		0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.18
31	1	0.0		0.02		0.0		0.0	0.0		0.02		0.0
TCTAI	[0.50	0.65	0.52	0.10	2.47	1.82	0.38	0.58	0.62	0.22	1.57	2.02
SIA		1.80	0.85	1-41	1.08	0.86	1.35	0-41	0.68	0.80	1.22	1.28	1. 44

Caging: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) 127X07. 'Actual' amounts were computed as per relatiouship developed by W. B. Hamou, "Computing Actual Precipitation", Proceedings of WEG-ILEES Symposium, Geilo, Morway, Angust, 1972. The equation used is: loge (U/A) = loge (U/S) x 1.80, where 0 = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation.

Staticu Averages: 10 yr beginning 1968.

1577	D .	AILY PEFC:	IPITATICE	(INCHES)		FEYNC	Irs, Iraec	LCWIE S	BEED CREE!	RATEBSEE	C (117066)
Ea y	Jap	P∈b	Mar	ytı	t a y	Jun	Jul	Aug	Sep	Cct	Бсv	Σ∈c
1 2 3 8 5	0.0 0.04 0.10 0.06 0.04	0.0 0.0 0.0 0.0	0.03 0.0 0.02 0.0	0.01 0.0 0.0 0.0 0.0	0.23 0.0 0.05 0.0 0.30	0.0 0.0 0.0 0.0	0.02 0.13 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.11 0.0 0.0 0.16	0.01 0.04 0.02 0.0
8 9 9	0.0 0.0 0.0 0.0	0.0 0.0 0.05 0.04 0.0	0.0 0.0 0.0 0.06 0.0	0.0 0.0 0.0 0.0	0.44 0.04 0.0 0.22 0.02	0.03 0.01 0.01 0.08 0.23	0.0 0.0 0.0 0.03	0.0 0.02 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.01 0.0 0.0 0.0
11 12 13 14 15	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.02 0.02 0.0 0.0	0.0 0.0 0.05 0.0	0.18 0.0 0.0 0.0 0.12	0.45 0.04 0.05 0.53	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.05 0.05	0.0 0.0 0.0 0.0	0.0 0.0 0.03 0.01 0.02	0.42 0.0 0.08 0.33 0.48
16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.01 0.01 0.0 0.03 0.03	0.0 0.0 0.0 0.0	0.0 0.02 0.01 0.0	0.0 0.0 0.16 0.01 0.20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.12 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.01 0.02 0.02	0.0 0.15 0.02 0.0
21 22 23 24 25	0.0 0.0 0.0 0.0	0.16 0.02 0.14 0.0	0.0 0.0 0.0 0.06 0.0	0.0 0.0 0.0 0.0	0.0 0.04 0.08 0.02 0.0	0.0 0.0 0.0 0.0	0.0 0.04 0.0 0.11 0.01	0.0 0.0 0.0 0.20 0.22	0.0 0.0 0.01 0.23	0.0 0.0 0.0 0.0	0.28 0.19 0.02 0.14 0.13	0.0 0.02 0.05 0.07
26 27 28 29 30 31	0.0 0.0 0.0 0.0 0.0	0.92 0.0 0.J	0.0 0.01 0.03 0.02 0.0 0.02	0.0 0.0 0.0 0.0	0.07 0.03 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.14 0.0 0.0 0.0 0.0	0.0 0.0 0.03 0.13	0.06 0.01 0.0 0.02 0.08 0.02	0.14 0.01 0.0 0.05 0.05	0.0 0.02 0.01 0.03 0.05
TOTAL STA AV	0.24	0.43	0.32	0.10	1.88	1.80	0.34	0.58	0.62	0.19	1.44	1.87

Gagiug: Values are amounts from unshielded recording gage 127407. Station Averages: Bot applicable to unshielded rain gage records.

1977	E.	AILY PERC	NOIFETTE	(INCBES)		FEYNC	LDS, IDABO	ICHER SI	EEF CREE	R WATERSE	EI (11706)	5)
Day	Jan	P∈b	Mar	Apr	ža y	Jur	Jul	Ług	Sep	Cct	усъ	£∈c
1	0.0	0.0	0.36	0.31	0.23	0.0	0.62	0.0	0.0	0.0	c.o	0.01
2 3	0.07	0.0	0.04	0.0	0.0€	0.6	0.15	0.0	0.0	0.0	0.11	0.04
4	90.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02
5	0.05	0.0	0.0	9.4	0.43	0.0	0.0	0.0	0.0	0.0	0.16	0.0
6	0.0	0.6	0.0	0.0	0.46	0.03	0.0	0.0	0.0	0.0	0.0	0.01
7	0.0	0.0	0.3	0.3	3.04	0.01	0.0	0.02	0.0	0.0	0.0	0.0
9	0.0	0.05	0.06	0.0	0.0 0.24	0.01	0.03	0.0	0.0	0.0	0.0	0.0
10	0.0	0.04	0.0	0.0	0.02	0.24	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.22	0.45	0.0	0.0	0.0	0.0	0.0	0.42
12	0 - C	0.0	0.02	0.0	0.0	0.04	0 - 0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.09	0.0	3.05	0.0	0.0	0.0	0.0	0.03	0.0€
14	0.0	0.0	0.0	0.0	0.0	0.53	0.0	C.0	0.05	0.0	0.01	0.33
15	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.02	0.4€
16	0.0	9.0	0.01	0.0	0.0	0.0	6.0	0.0	0.12	0.0	0.0	0.0
17	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.15
18 19	0.0	0.0	0.03	0.0	0.01	0.16	0.0	0.0	0.0	0.0	0.01	0.02
20	0.0	0.0	0.0	0.0	0.0	6.20	3.0	0.0	0.05	0.0	0.02	0.0
21	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0
22	0.0	0.02	0.0	0.0	0.04	0.0	0.34	0.0	0.0	0.0	0.20	0.02
23	0.0	0.19	0.0	0.0	0.0€	0.0	0.0	0.0	0.01	0.0	0.02	0.09
24 25	0.0	0.0	0.10	0.0	0.02	0.0	0.11	0.20	0.23	0.0	0.14	0.07
25	0.0	0.3	J. 0	0.0	0.0	0.6	0.01	0.22	0.0	0.0	0.13	0.0
2€	0.0	0.92	0.0	9.0	0.07	0.0	0.4	0.14	0.0	0.06	0.14	0.0
27	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0	0 - 0	0.01	0.01	E0.0
28 25	0.0	0.)	0.33	0.0	0.0	0.0	0.0	0.0	0.05 0.13	0.02	0.0	0.02
30	0.0		0.02	0.0	0.0	0.0	0.0	3.0	0.0	0.02	0.05	0.05
31	0.0		0.02		0.0		0.0	0.0		0.02		0.0
TCTAL STA AV	0.36	0.51	0.41	0.10	2.12	1.£1	0.3€	0.58	0.62	0.19	1.50	1.56

i-Gaging: Values are amounts from shielded recording gage 127507. Station Amerages: Not applicable to shielded rain gage records.

197	7	MEAN DAIL	Y LISCHAR	GE (CFS)		FEAMC	IDS, IDA	BC ICHEB	SHEEP CEE	ER WATERS	BEC (1170	E E)
Day	Jan	F∈b	Bar	Apr	Bay	Jur	Jul	A ng	Sep	Cct	ķc∀	£€c
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
3	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
5	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.C	0.0	0.0	0.0	0.0	0.0	0.0
6	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	3.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	C - O
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	e.o	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	G.0	0.0
2€	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	ű. U	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	3.0	0.0	0-0	0.0	0.0
30 31	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			0.0									
PAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NCHES TA AV	0.0 0.112	0.0 0.091	0.0 0.122	0.0 0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Staticn Averages: 11 yr beginning 1967.
Conversion Factor: CPS to IN/DAY, multiply by 0.721262.

CHICKASHA, CKIABCHA WATERSHED 100 AT ABADARKO

LCCATION: Washitz Eiver above Anadarko, Okle.; Sonthwest Certial Oklahoma and Texas Panhandle; in Caddo, Kiowa, Washita, Onster, Feckham, and Eoger Bills Connties, Okla.; and Eemptill, Wheeler, and Gray Contties, Tex.; Washita Eiver, Fed Biver lasin. GAGING STATION—NWI/4 sec. 15, T. 7 k., E. 10 W., lat. 35 deg. 05 pin. k., long. 56 deg. 14 min. W.; North edge of Anadarko, Okla., 35 feet npstream from C.5. Bighway 281 bridge over Washita Eiver; at river mile 305.2, approximately 8.1 miles npstream from confluence of Sugar Oreek.

2339800.00 acres 3656.00 sg. mil∈s

E C	RIBIS	PFECIF	ITATICE	SKC F	UBCEE (INCEES	5)		CBICKA	SHA, C	KLABCB	a wat	PRSEEC	190 AT	ABADAE	KC	
		Jan	₽eb	ĕar	y i	r	ža y	Jnn	Jul	ÈI	9	5 € F	0st	PCA	£∈c	1	ttbal
1977	Q	0.032	0.039	0-0	28 0.	024	0.619	0.307	0.05	ο.	052	0.046	0.076	9.044	0.5	36	1.385
SIA AV	Q	0.047	0.045	0.0	61 0.	083	0.169	0.150	0.36	7 υ.	062	0.099	0.377	0.085	0.0	47	6.993
	ABBU	DAL MAXI	BUB DIS	SAVEE	(in/br) ARE	SPXISOS	ACIOS	ES CE F	UNCEF	(incte	s) FCB	SELECIE	C TIBE	IKIEFV	315	
		Eari		4 0		2 1			Volume				Interva			0 1	2.00
		Disch Date		1 B			Vcl.		Vol.		Vol.		Day Vol.		vol.		Vol.
1977		5-31	0.003	5-31	0.003	5-31	0.005	5-31	0.01€	5-30	0.031	5-30	0.062	5-30	0.121	5-24	0.379
						ě	AXIEGES	FCE E	FFICE C	E FECC	3 8						
		9-25 1565	0.004	9-23 1985	0.304	9-23 1985	0.009	9-23 1965	0.026	9-23 1965	0.052	9-23 1965	0.100	5-23 1965	0.166	9-21 1965	0.364

Watershed Conditions: Mot applicable.

Maps: Bydrologic - Bydrologic Data for Experimental Watersheds in the United States, 1565, USFA Misc. Enh. 1216, page 65.7-21.

Frecipitation: Since this is the inflow station to a study reach, precipitation data are not applicable. Funoff: Records began Oct. 1561.

Long-Term Frecipitation: Wational Weather Service records at Chickasha, (kla.

1577		BBAN DAILY	CISCEARGE	(CFS)		CEI	CKASBA,	CKIBECEB	WATERSBEI	100 AT	PRAT PERC	
Day	Jan	Feb	Bar	yèı	tay	Jur	Jul	109	S€F	Cct	Bc∀	L∈c
1	9.83	96.4	98.9	81.6		3911.6	307.1	223.4	410.6	91.3	341.6	117.8
2	86.4		9.9	79.2	635.1		253.2	336.9	289.6	91.3	222.5	117.6
į ž	E1. 6		101.5	76.5		1950.8	226.2	450.1	226.2	51.3	163.1	117.8
1 4	91.3		96.4	72.4		1774.6	211.4	230.0	193.5	93.6	189.7	120.6
5	53.8	106.8	93.8	70.1	405.4	1621.6	207.7	176.3	183.1	96.4	166.4	120.6
6	58.9	106.8	91.3	67.9	899.3	1440.5	204.1	159.5	175.7	9.89	156.7	120.6
7	93.8	104-1	91.3	67.5	1177.8	1314.7	200.€	169.7	183.1	98.9	144.2	120.6
1 6	98.9	101.5	88.8	65.8	1185.4	1187.3	193.5	138.1	190.0	147.8	150.4	120.8
9	91.3	101.5	88.4	65.8	644.3	1200.7	150.0	123.4	173.0	186.5	147.3	117.6
10	91.3	\$8.9	8.88	63.6	505.3	1282.7	186.5	115.0	163.1	197.0	138.1	112.2
11	8.83	104.1	26.4	57.4	844.3	1233.7	179.7	115.0	159.9	197.0	136.1	117.8
12	88.8	117.8	4.33	59.4	1623.0	1168.3	173.0	117.8	156.7	200.8	144.2	112.2
13	8.83	117.8	86.4	59.4	979.6	1131.6	163.1	112.2	153.5	207.7	136.1	117.8
14	93.8	117.8	0.49	55.4	520.9	1066.3	156.7	112.2	150.4	211.4	132.1	117.8
15	101.5	129.2	86.4	63.8	374.6	1037.7	147.3	112.2	158.1	211.4	129.2	123.4
16	106.6	120.6	91.3	65.8	311.4	10,25.6	144.2	120.6	126.3	215.0	129.2	123.4
17	120.6	115.0	91.3	70.1	261.2	1088.4	136.1	242.4	123.4	218.7	123.4	120.8
18	120.6	109.5	91.3	74.6	207.7	802.7	135.1	194.3	117.8	215.0	123.4	117.8
19	120.€	106.8	91.3	76.5	323.0	408.1	132.1	144.2	115.0	216.7	120.6	115.0
20	126.3	101.5	91.3	84.0	1196.2	342.6	126.3	172.2	115.0	222.5	120.6	112.2
21	106.8	101.5	84.0	115.0	2548.8	302.8	123.4	576.5	112.2	218.7	120.6	109.5
22	106.8	10 1. 5		125.2	3890.7	285.8	117.8	853.0	106.8	211.4	117.6	165.5
23	115.0	101.5	86.4	106.8	4257.3	273.4	117.8	545.6	101.5	202.5	120.6	106.8
24	120.6	96. 4	86.4	104.1	4514.4	273.4	115.0	312.0	101.5	383.2	117.8	106.8
25	115.0	96.4	84.0	98.9	4457.0	277.5	112.2	248.7	101.5	454.2	117.8	106.8
2 8	115.0	\$8.5	86.4	93.8	3124.0	307.1	105.5	233.7	98.5	426.7	117.8	106.8
27	112-2	96.4	86.8	91.3	3144.4	320.2	104.1	592.5	93.8	428.7	120.6	10€.8
28	106.8	98.9	88.8	66.4	4671.9	338.0	104.1	455.8	93.8	438.8	120.6	106.8
29	106.8		8.38	86.4	5125.2	315.8	109.1	355.8	93.8	945.0	117.8	165.5
30	104.1		86.4	86.4	5800.0	285.8	117.8	439.0	93.6	954.2	120.6	109.5
31	98.9		81.6		8054.8		133.0	418.8		445.0		109.5
	10 2 . 6			79.3		1004.8	155.2	251.6	151.5	239.7	143.7	114.6
IBCBES	0.032		0.028	0.024	0.819				0.046	0.076		0.016
SIA AV	0.047	0.045	0.061	0.083						0.077		0.047

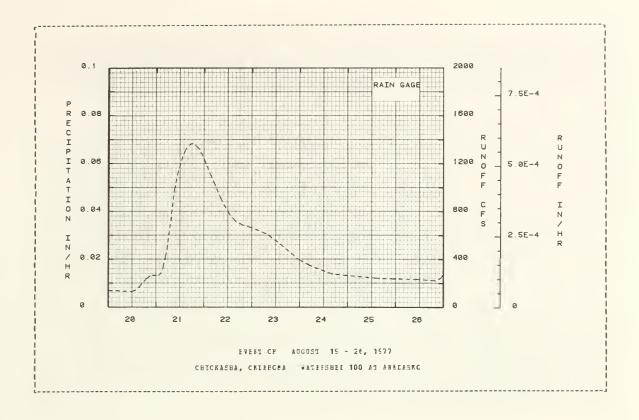
Air Temperatures: See table for Watershed W-700, (69.007) of this publication.
Station Averages: 17 yr beginning 1961.
Conversion Factor: CPS to IM/DAY, multiply by 0.00001017. Inches to AC-F1, multiply by 194,583.

Cooperative Research Project of USCA and Cklahoma Agricultural Experiment Station

ANTECELEN					CHICI			EUNC	P P	
Cate E Mc-Day (ainfall irches)	Funoff inches)	Date Bo-Day	Time of Tay	Intersity (in/tr)	Acc. (inches)	Cat∈ 8c-Cay	Time of Cay	Fate (cfs)	Acc. inches)
			EAL	NT CF A	060ST 19 -	26, 1977				
€-19		0.002					€-19 €-20	2400 1130 1330 1530 1900	138.100 125.220 141.650 170.740 238.970	0.0 0.0007 0.0008 0.0009 0.0012
MIHRSBEC CC t applicabl								2100 2200	261.579 265.360	0.0014 0.0015
							8-21	2400 100 230	285.250 285.908 288.100	0.0017 0.0018 0.0020
								330 500 700	339.148 453.958 692.000	0.0021 0.0024 0.0029
								900 1030	585.668 1109.548	0.0038 0.0043
								1300 1500 1700	1257.208 1331.408 1383.059	0.0055 0.0056 0.0078
								1800 1930	1388.568	0.0083
							8-22	2130 2400 300 530	1217.678 1231.698 1109.548 1015.838	0.0103 0.0117 0.0132 0.0193
								900	860.546 767.519	0.0157
								1600 2000 2400	711.279 880.859 882.378	0.01E0 0.0192 0.0204
							8-23	700 1300	613.809 544.138	0.0223 0.0237
							8-24	2400 600 1630	393.009 341.878 277.158	0.0259 0.0268 0.0282
							8-25	2400 1600	265.120 241.400	0.0291
							€-2€	2400 1030 2000	237.590 233.730 222.500	0.0316 0.0327 0.0338
								2230	242.390	0.0338

Conversion Factor: CFS to IB/BF, multiply by 0.0000004239.

Rotes: No precipitation record is shown because all of the watershed lies cutside of the area in which precipitation is measured.



69.001- 3

CHICKASBA, CRIABCRA WATEZSFEC 500 NEAD CHICKASBA

LCCATION: Washita River Watershed above Chickasha, Ckla.; Scuthwest Central Cklahoma and Texas Santandle; in Grady Caddo, Canadian, Riowa, Washita, Custer, Beckham, and Beger Mills Ccunties, Ckla.; and Bemphill, Wheeler, and Grey Ccunties, Tex.; Washita River, Red Fiver Basine GAGING STATION-SELVA Sec. 23, 1. 7 N., E. 7 W., lat. 55 deg. 05 mir. N.; long. 97 deg. 54 min. H.; 1 mile Northeast of Chickasha, Ckla., at E. E. Failey Turnpike bridge over Washita Elver at river mile 256.5, approximately 1.3 miles downstream from confluence of line Creek.

2768000.00 acres 4325.03 sg. miles

BC.	RTHL	PFFCIF	ITATICN	AND SUNC	FF (INCE	ES)		CEICKAS	PA, CK	IAHCEA	HATI	BESHEC:	500 NF 2	P CHIC	KASEA	
		Jan	₹∈b	Ear	Apr	Bay	Jun	Jul	269	S€	Ę.	Cci	Bc▼	D∈c		rrual
1977	P Q	0.35 3.028	1.53 0.531	0.74 0.029	2.95 0.033	10.70 0.510	2.12 0.363	1.66 0.058	3.1 0.0		56 046	1.81	1.38 0.046	0.1		1.324
STA AV	ō ō	0.80 0.043	1.11	1.77 0.062	2.95 0.091	4.43 0.174	3.01 0.137	2.16 0.063	2.7		52 082	2.31 0.067	1.75	0.6		7.43 0.945
	ANNO			HAIGE (i	n/hr) AK									VAZENE	ALS	
		Maxi Disch Date	arge	1 Bour Dat∈ Vc		Hours e Vol.	6 B		12 Bc	UIS	1 1	Int∈IVa Day Vcl.		ys Vcl.		oays Vol.
1977		6- 2	0.002	5-30 0.	003 5-3	0.006	5-30	e.019	5-30	0.036	5-30	6.057	5-30	0.100	5-26	0.342
						BAXINUES	E FCR P	FFICE CF	FFCCF	E C						
		4-12 6 1967).v03	5-30 0. 1977	003 5-3 197	0 0.006 7	5-30 1977		5-30 (1977		5-30 1577	0.057	5+ 6 1965	0.102	5-26 1577	0.342

Watershed Conditions: Por area not included above subwatersheds as determined from a revised 1979 survey; sowed crop = 35%; rev crop = 4%; alfalfa = 5%; pasture and rance = 47%; ard miscellaneous = 9%.

Maps: Composite = Bydrologic Date for Experimental Agricultural Watersheds in the United States, 1965, USDA Risc. Pub. 1216, page 69.7-21.

Frecipitation: Fecords began Cot. 1961. Theissen weighted average of 40 gages for the reach Letween Verden (200) and Chickasha (500) before Dec. 31, 1874. Chtained from an arithmetic average of 96 gages for the reach Letween Anadarko (100) and Chickasha (501) after Dec. 31, 1874.

Bunoff: Fecords tegan Jan. 1864.

Long-Term Frecipitation: Maticnal Weather Service records at Chickasha, Ukla.

Note: Watershed 200 was discontinued Dec. 31, 1874.

1977	Di	AILY PEECI	FITATION	(INCHES)		CHIC	Kase, CK	LPECHA	WATESSEE	500 NEAE	CHICKASE	2
Day	Jan	F∈b	Mar	Arr	May	Jun	Jul	Aug	S€ţ	Oct	Bo▼	E∈c
1 1 2 1 3 1 4 1 5	0.0 0.0 0.0 0.0	0.0 0.02 0.04 0.0 0.0	0.0 0.14 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.54 0.54 0.28 0.22 0.82	0.0 0.0 0.0 0.0	0.57 0.0 0.0 0.0 0.0	0.08 0.0 0.0 0.0 1	0.0 0.0 0.0 0.06 0.44	0.0 0.0 0.0 0.31 0.0	80.0 91.0 1 0.0 0.0	0.0 T 0.0 0.0 0.06 0.01
6 7 8 9	0.01 0.0 0.03 0.14 0.0	0.0 0.0 0.0 0.0	0.0 0.9 0.0 0.0 0.10	0-0 0-0 0-0 0-0	0.0 0.0 0.0 0.0 r 0.0	0-0 0-0 0-0 0-0	0.0 0.0 0.0 0.0	6.0 0.0 0.0 0.0 0.21	0.0 T 0.0 0.0 0.0 0.0	0.0 0.0 T 0.0 0.0	0.0 0.26 0.62 0.16 0.0	0.0 0.0 0.0 0.0
1 11 1 12 1 13 1 14 1 15	0.0 0.15 0.01 0.0	1.26 0.01 0.0 0.0 0.0	0.0 0.0 0.3 0.3	0.0 0.0 0.11 0.88 0.25	0.0 0.0 0.12 0.01 0.05	0.0 0.17 0.0 0.0	0.0 0.0 0.0 0.0 0.12	0.04 0.0 0.13 0.0 I	0.0 0.19 0.14 0.0	0.0 0.0 0.0 0.0	0.0 3.0 0.0 6.0 0.0	0.0 7 0.0 7 0.0 0.0
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.3	0.0 0.0 0.0 0.0	0.30 0.32 0.02 0.02 1.70	0.09 0.07 0.0 2.01 2.19	0.0 0.0 0.0 T 0.0	0.0 0.0 0.0 0.0	10.0 1 0.0 0.0 0.0 83.0	0.02 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.0 0.03 0.02 0.0	0.0 T 0.0 0.0 0.0	0.0 6.0 T 0.0 T 0.0	0.02 0.07 0.0 0.0 0.0	0.01 0.0 0.0 0.0 0.0	0.0 0.33 0.15 0.04 0.40	0.03 10.0 1 0.0 0.0 0.0	0.0 0.0 0.0 1.01 0.0	0.0 0.0 0.0 0.0 0.0	0.0 1.18 0.19 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 27 28 29 30	0.0 0.0 0.0 0.0 0.0	0.15 0.35 0.0	0.13 0.37 0.0 1 0.0 0.0	0.0 0.0 T 0.0 0.34 0.02	1.77 0.60 0.0 I 0.0 0.84 0.74	0.23 0.0 0.69 0.11	0.0 T 0.40 0.21 0.12 0.01 0.41	0.0 0.38 0.22 0.45 0.0	0.0 0.0 0.04 0.05 0.0	0.0 0.0 T 0.03 0.0 0.10	0.0 0.0 0.08 0.0	0.0 0.0 0.0 0.04 0.0
TCTAL STA AV	0.39 0.80	1.53 1.11	0.74 1.77	2.55 2.95	10.70 4.43	2.12 3.61	1.66 2.16	3.17 2.76	0.56 3.52	1.61 2.31	1.38 1.75	0.11 0.86

Air Temperatures: See table for Watershed W-700, (69.007) of this publication. Gaging: Arithmetic average of 96 rain gages.
Station Averages: 17 yr beginning 1961.

Cooperative Hesearch Project of USDA and Cklaboma Agricultural Experiment Station

:	197		eean Dail					CKASEA, C	* T 3 O C B 3		500 553	E CEJCKAS	
!	157		DESK DAIL	I IIICHEF	3E (CF3)			Crases, C		*B1 E B 3 D E		t ctleves	
į.	Day	Jan	F∈b	Z a r	FFT	ē a y	Jut	Jtl	209	Sep	Cct	₿C¥	£€C
1	1	96.4	122.4	118.7	94.1	125.8	5346.6	547.5	146.6	460.1	104.4	444.1	137.5
i	2	55.8	117.5	130.7	93.0	252.6	5714.9	578-4	157.6	422.7	102.1	381.1	137.5
i	3	103.3	115.1	120.€	93.0	722.1	4146.9	378.2	315.9	311.0	102.1	258.4	137.5
i	4	109.1	118.7	123.6	91.9	622.€	2426.2	308.3	461.5	252.4	105.6	214.6	127.5
į	5	103.3	121.1	123.6	93.8	354.9	2015.9	288.2	305.4	228.3	10€.6	195.2	136.2
-	6	100.5	121.1	121.1	3.02	437.1	1754.4	274.8	20 € . 4	217.6	111.5	186.5	136.2
i	7	98.7	122. 4	118.7	Su. E	929.7	1544.9	263.3	180.8	202.€	111.5	185.1	133.6
i i	8	96.4	122-4	118.7	3.62	1160.6	1411.2	253.6	173.7	205.€	111.5	186.5	136.2
i .	ç	95.3	119.9	118.3	85.7	1137.7	1303.6	240.5	155.5	207.0	117.3	182.2	134.9
i i	10	95.2	117.5	116.3	83.2	618.6	1311.6	234.6	140.1	182.2	175.9	180.8	124.6
1	11	\$5.3	137. 1	117.5	60.0	575.3	1345.6	225.2	133.6	170.9	186.5	176.6	140.1
1	12	94.1	140.5	111.5	74.8	74 E. U	1301.3	214.6	124.8	168.2	193.8	172.4	128.6
1	13	54.1	169.5	112.7	69.8	1384.7	1260.5	204.1	132.4	176.6	201.1	172.4	133.6
1	19	54.1	151. 9	112.7	71.6	850.7	1197.3	195.2	132.4	161.3	202.6	172.4	127.3
i	15	56.4	145.3	107.9	61.1	646.0	1135.3	186.5	129.6	155.5	207-0	166.8	128.6
!	16	56.7	147.5	105.6	81.1	520.9	1102.0	196.7	122.4	150.5	207.0	157.2	129.8
!	17	100.9	149.2	106.8	88.6	912.0	1091.0	183.6	121.1	145.3	210.0	153.2	152.4
!	16	103.3	143.2	106.8	90.6	322.1	1124.2	172.4	167.3	141.4	211.5	146.6	129.8
!	19	103.3	140.1	104.4	51.5	531.0	854.2	161.2	242.6	137.5	213.1	145.3	128.6
!	20	103.3	129.8	102.1	170.2	15 24 . 1	558.4	157.2	176.6	127.3	213.1	145.3	126.1
1	20	103.3	125.0	102.1	170.2	1524.1	226.4	137.2	176.6	12702	21201	140.0	120.1
i	21	103.3	128.6	100.9	577.3	3799.5	458.8	151.9	159.0	123.6	214.6	141.4	122.4
Ĺ	22	103.3	123.6	58.7	312.3	3668.4	405.5	147.5	726.6	121.1	222.2	137.5	127.3
i	23	109.1	121.1	95.3	196.1	3795.2	399.5	145.3	612.0	117.5	242-4	138.6	122.4
i	24	127.3	117.5	56.4	161.5	3882.5	391.9	141.4	642.5	111.5	22€.€	138.8	123.6
İ	2 5	142.6	116.3	95.3	137.5	3991.1	368.2	140.1	E.003	105.6	314.5	136.8	122.4
1	2 €	136.2	113.9	96.4	132.4	4052.3	409.1	132.4	398.8	104.4	450.5	137.5	121.1
i	27	138.9	115.1	105.6	123.6	4362.6	425.0	125.8	288.8	100.5	424.5	137.5	119.5
1	28	131.1	117.5	107.9	115.1	4336.5	40 € . 4	127.3	627.3	100.5	918.7	137.5	119.9
i	29	115.1	,	103.3	126.8	4258.2	455.3	133.8	600.2	102.1	920.8	137-5	121.1
i	30	112.7		98.7	196.1	4379.6	494.4	125.8	442.2	103.3	432.3	137.5	122.4
į .	31	107.9		95.3		4888.5		129.8	480.2		442.2		124.8
	AH	106.6	128.8	105.3	129.7	1516.4	1407.3	218.5	314.5	177.2	225.9	180.2	129.2
	CBFS	0.028	0.931	0.029	0.033	0.510	0.363	0.058	0.084	0.046	0.060	0.046	0.034
	A AV	0.043	0.043	0.062	0.051	0.174	0.137	0.063	0.063	0.082	0.067	0.075	0.045
i													

Ctation Averages: 14 yr beginning 1964. Conversion Factor: CPS to IB/CAY, multiply by 0.000008599. Inches to AC-F1, multiply by 230,667.

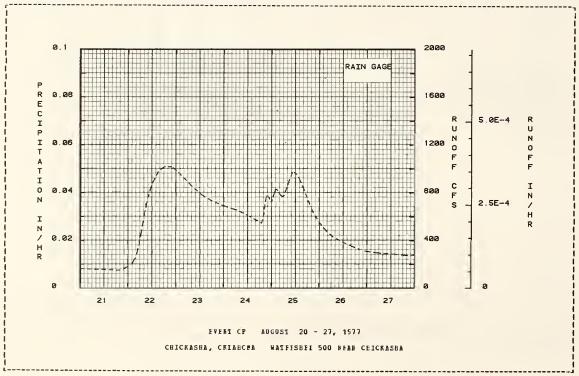
	BRI CCMDI				IBFALL			FUNC		
Dat∈	Bairfall	Euncff	Dat∈	Time	Intensity	Acc.	Cat∈	Time	Fate	Acc.
ec-Day	(liches)	(10Cbes)	по-рау	or Fay	(iu/hr)	(1DCbes)	вс-гау	of Cay	(cis)	(1DCLes)
					F0757 70	27 4(22				
			1 411	or cr a	0GUS1 20 -	27, 1577				
€-20		0.002					8-20	2400	162.670	0.0
							8-21	1600	151.820	0.0010
								2000	155.250	0.0011
								2400	183.590	0.0014
							8-22	200	206.6EC	0.0015
	t ircluded							330	253.780	0.0016
utwatershe	ds as deter	rmined						430	303.158	0.0017
rom a 1970	SDIACA: 8	owed						530	376.010	0.0018
	TOW CLOD							630	462.208	0.0020
lfalfa - S	%; rastore	and						7 30	564.708	0.0022
ange - 4/1 anecus - 9	; ard misc	e1-						830	648.938	0.0024
								330	725.668	0.0026
								1100	628.489	0.0031
								1230	853.928	0.0035
								1500	576.388	0.0044
								1730	10 11, 148	0.0032
								1830	1017.579	0.0056
								2000	10 16. 148	0.0062
								2130	1016.708	0.0067
								2230	1007.800	0.0071
								2400	588.878	0.0076
							8-23	400	923.109	0.0090
								800	652.188	0.0102
								1300	775.789	0.0107
								1800	731.009	0.0131
								2400	689.648	0.0146
							8-24	630	655.040	0.0161
							- 24	1200	811.590	0.0174
								1700	565.158	0.0184
								1900	548.158	0.0188
								1700	- TC - 1 - C	0.0100

Couversion Factor: CPS to IB/BF, multiply by 0.00000038585.

Botes: No precipitation record is shown because most of the watershed lies ontside of the area in which precipitation is measured.

	FRT CCBDI	TICNS		F 3 1	CBIC			T C N C		
Lat∈ Mo-Day	Rainfall (irches)	Buncff (inches)	Dat∈ Bo-Day	Time of Tay	Intersity (in/hr)	Acc. (inches)	Cate Mc-Day	m /		Acc. (inches)
			EVENT CF		20 - 27,					·
			E # E # E F E	806021	20 - 21,	1977 (CC	WITHOFT)			
							6-24	2000	604.100	0.0191
								2041	702.428	0.0192
								2130	773.938	0.0154
								2200	778.95€	0.0196
								2211	769.418	0.0196
								2236	763.008	0.0157
								2300	747.958	0.0198
								2400	724.668	0.0201
							€-25	23	741.888	0.0202
								100	778.060	0.0204
								200	832.356	0.0207
								230	£27.87£	0.0208
								306	€20.00€	0.0210
								330	£04.536	0.0211
								500	771.168	0.0215
								523	770.550	0.0216
								623	778.07E	0.0219
								700		0.0221
								900	912.269	0.0227
								1030	971.020	0.0232
								1130	971.120	0.0236
								1230	954.769	0.0239
								1400	916.049	0.0244
								1630	816.999	0.0252
								1830	731.969	0.0258
								2100	633.688	0.0264
								2400	551.928	0.0270
							8-26	400		0.0277
								700	429.208	0.0282
								1200	386.060	0.0285
								1800	340.668	0.0297
								2400		0.0304
							8-27	700	292.918	0.0312
								1400		0.0319
								20 30	274.686	0.0526
								2400	280.520	0.0329

Conversion Factor: CFS to IN/BE, multiply by 0.00000028583. Notes: No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



69.005- 3

CHICKASHA, CKIAHCEA WATERSEED 700 NEAS ALEX

LCCATION: Washita Eiver Watershed above Alex, Okla.; Southwest Central Cklaboma and Texas Earhardle; in Grady, Caddo, Canadian, Riova, Washita, Custer, Beckbam and Eoger Mills Counties, Ckla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Bed River Basin. GAGING STATION--NW1/4 sec. 7, T. 5 N., R. 5 W., lat. 34 deg. 55 min. N., long. 97 deg. 46 xin. W., 1 mile north of Alex, Ckla.; at county road tridge over Washita River at river xile 226.5 approximately 3.8 miles downstream from confinence of Winter Creek.

306112).0) acres 4783.00 sg. miles

ŧ C	NTEL	PRECIP	ITATION	AND FONC	FE (INCEE	S)		CHICKAS	BA, CRIAN	CFA WAS	IERSBEL	700 NE A	FAIFE		
		Jan	F∈b	far	Apr	Bay	Jnn	Jul	₽€g	Sep	Cct	B C ♥	[∈c	1	rruel
1977	Č E	0.61 0.032	1.60 0.037	1.38 0.034	2.94 0.041	8.89 0.528	1.96 0.367	2.66 0.060	2.53 0.086	1.42 9.049	1.37	1.11	0.0		1.372
STA AV	E Q	1.14	1.32 0.051	1.89 0.072	2.50 0.058	4. E0 9. 178	2.55 0.172	2.61 0.079	2.75 0.062	3.89 0.090	2.57 0.075	1.65 0.089	0.0		9.00 1.067
	ANNO	Baxis	nn arge	1 Honr		Hcurs	aximum 6 Ro	Volume :	fcr Selection 12 Fours	ted Time		1 2 Ca	y s	8 1	ays
1977		5-21 (5-26 %	003 5-26	0.005			Date Vol. 5-26 0.0						Vol. 0.342
						PAXIEUES	FCF EI	EICE CE	EECCEC						
		5-23 (1975	0.003	5-26 0. 1977	003 8- 1 1975		9 -20 19€2		8- 1 0.0 1975	36 5- 7 1969	0.064	5- € 19€9	0.114	5-21 1977	0.342

Watershed Conditions: For area not included above subvatersheds as determined from a revised 1974 strvey; scred crcp - 21%; row crop - 6%; alfalfa - 5%; pastors and rarge - 60%; and miscellaneous - 8%.

Maps: Rydrologic - Rydrologic Data for Experimental Agricultural Watersheds in the Onited States, 1965, OSCA Misc.

Eub. 1216, page 69.7-21.

Precipitation: Records began Oct. 1961. STA AV (P) values are a Thiessen weighted average of 21 gages for 1962-70 on the reach from Tabler to Alex, a Thiessen weighted average of 77 gages for 1971-75 or the reach from Chickasha to Alex, Ckla. and an arithmetic average for 73 gages from 1976 onward, for a total period of 15 years.

Runoff: Seconds began Sept. 1961.

Long-Term Precipitation: Mational Weather Service records at Chickasha, Okla.

1 19	77 DAILY	AIR T	BPER	ATUBE	Į₽	EGFEE	S E)				CHI	CRASE	A, C	RIAFC	BA	WATE	RSHE	C 700	BEA	FALE	X		
Cay	Jan wax wir	Fel max 1		Bar wax w		ng x y t		Ba Bax		Jn		Jn		nax wax		Se		C c		No Ia I		De max	
1 1 1 2 1 3 1 4	27 9 26 22 28 21 55 23 23 18	53 44 52 63 54	1 E 3 2 2 2 1 7 1 6		26 46 37 27 26	60 70 74 65 69	43 46 44 40 31	76 74 82 81 77	64 60 57 63 60	85 91 54 93	61 66 69 69	75 90 92 93	67 73 72 66 71	92 91 92 94 92	66 71 70 73 73	89 92 92 95 81	72 70 68 67 69	24 74 72 €0 70	59 51 50 52 57	63 53 65 71 63	45 44 50 48	56 69 54	20 32 32 36 25
6 7 8 9	39 19 53 12 41 6 14 -2 10 -4	57 46 60 65 64	20 17 29 34 30	73 78 69	24 31 42 49 50	81 E1 E2 80	36 46 50 50	79 83 86 87 72	60 62 63 63	96 80 90 99	64 55 54 70 72	95 96 94 96	70 72 70 71 69	54 54 54	73 74 78 79 75	86 91 88 90 89	71 68 66 63 62	75 72 74 63	61 63 46 40	70 75 56 46 59	55 50 42 36 31	32 53 54 27 37	18 23 20 14 5
11 12 13 14 15	32 2 31 15 32 30 43 22 44 10	50 58 72 49	42 40 29 28 25	60 61 64	42 42 28 51 43	76 76 78 73 70	54 56 48 56	71 76 79 79	53 46 56 60	96 95 90 90 84	68 67 66 68	98 98 98 97 95	76 76 74 70 76	50 51 56 57	69 69 72 72 71	95 91 78 76 85	70 67 63 60 57	64 72 81 81 65	37 32 38 36 38	68 69 69 72 76	31 32 47 45 48	47 62 61 66 73	32 43 25 41
1 6 1 17 1 18 1 19 20	24 E 48 S 31 4 50 11 56 21	63 74 75 55 70	22 26 29 29 20	65 73 65	29 57 39 31 22	70 71 74 80 76	59 60 57 54 59	82 80 79 79 74	64 63 63	90 57 54 92 95	69 72 73 76 70	97 96 94 96	72 72 69 69 70	9 6 6 7 9 0 7 7 8 4	76 73 73 70 69	9 0 92 96 85 89	70 71 62 54 52	71 86 83 66	29 43 43 42 47	73 62 67 76 77	43 35 32 62 37	73 59 72 53	45 28 23 21 28
21 22 23 24 25	50 22 39 20 36 25 48 20 52 16	77 8 1 66 72 62	31 54 44 41 43	6 8 7 4 7 0	28 19 36 45 50	59 61 67 70 71	52 50 49 44	76 £1 £0 £2 84	60 56 62 64 62	9 4 9 4 8 6 8 3 8 9	74 72 70 70 68	95 95 95 102 106	74 70 70 75 76	85 100 100 52	71 66 71 70 72	99 94 91 94	69 71 72 65 70	65 71 61 77 79	60 61 52 51 53	47 55 66 52 58	31 36 40 31 31	44 61 66 71 42	20 20 36 21 15
26 27 28 29 50 31	58 20 60 16 34 7 33 5 33 12 48 6	43 55 62	24 19 22	67 77 76 68	58 52 46 37 39	75 83 62 82 76	43 53 61 61	85 81 67 66 90 77	62 58 66 70 70 6 Ξ	88 95 57 94 96	68 71 65 72 76	95 82 93 94 96 55	76 70 70 69 70	91 86 84 86 90	76 79 71 70 72 72	99 93 94 97 103	64 66 73 72 71	85 82 77 81 76 60	48 52 55 66 60	66 57 42 53	28 41 36 31 30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14 16 26 41 41 23
AV.	39 14 26.3 46 24	60 44. 53	5 2€	68 52. 61	38	74 62 72	49	70 80	57	9 2 8 0 8 8	.3	63	71 -1 71	61	72 -6 66	91 78 83	. 8	77 63 72	49	63 51 62	90 5 36		28 7 29

Etation Averages: Based on 16 yr beginning Sept. 1962.
Notes: Data recorded at South Central Agricultural Research Station. Av and 57A AV are rounded to the nearest degree. Bean rounded to the tenth of a degree. For Chickasha Besearch Station Evaporation Data, see National Weather Service Climatological Data for Oklahoma.

Cooperative Research Project of USDA and Oklahoma Agricultural Experiment Station

1977	C.	AILY PREC	IPITATICR	(INCHES)		CBI	CKASEA, CR	IAECHA	WATERSHEE	700 KEAR	ALEX	
Сау	Jan	F∈b	Mar	Apr	fa y	Jur	Jul	Aug	S€ţ	Cct	Bc▼	t ec
1	0.0	9.3	0.0	0.10	0.26	0.0	0.93	0.09	0.0	0.0	0.03	0.01
2	0.0	0.31	0.39	2.2	9-40	0.0	0.3	0.0	0.0	0.0	0.06	0.0
3	0.0	9.94	9.3	0.0	0.27	0.0	0.9	0.0	0.9	0.0	0.03	0.0
4	0.0	9.0	0.7	0.0	0.05	9.0	0.0	0.0	0.04	0 - 40	0.0	0.02
5	0.0	9.0	0.9	0.0	0.36	0.0	0.0	0.0 I	0.43	0.0 T	0.0	0.0
6	0.05	0.0	0.)	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0 • 0	0.0	0.0	0.0	0.02	0.11	0.0
٤	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0
ç	9.18	6.3	0.0	0.0	0.0	0.0	0.0 T	0-0	0.0	0.0	0.15	0.0
10	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.01	0.05	0.0	0.0	0.0
11	0.0	1.35	0.9	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
12	9.14	0.01	0.9	0.0	0.0	0.24	0.0	0.0	0.49	0.0	0.0	0.01
13	0.03	0.0	0.0	0.03	0.30	0.0	0.9	0.07	0.33	0.0	0.0	0.0
14	9-0	9.0	9.0	0.09	0.30	0.0	0.0	0.01	0.0	0.0	0.0	0.9
15	0.0	0.0	0.0	0.36	0.12	0 - 3	0.03	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.18	0.04	0.0	0.0	0.0 7	0-0 T	0.0	0.0	0.0
17	0.0	9.7	0.0 T	0.0 1	0.0 T	0_0	0.0	0.0	0.01	0.0	0.0	0.0
19	0.0	0.0	0.3	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.3	0.)	0.02	2.79	0.0	0.7	0.62	0.0	0.0	0.0	0.0
20	0.0	0.0	0.)	1.72	1.39	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0
21	0.0	0.0	0.0	0.01	0.03	0.0	0.34	0.0	0.0	0.0 1	0.0	0.0
22	0.03	0.04	0.3	0.05	0.0	0.31	0.0 T	0.9	0.0	0.74	0.0	0.0
23	0.03	0.0	0.) I	0.0	0.0	0.06	r 0.c	0.0	0.0 T	0.17	0.0	0.0
24	0.0	0.7	0.9 T	0.0	0.0	0.17	0.0	0.77	0.9	0.0	0.0	0.0
2 5	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.13	0.33	0.0	0.85	0.32	0.03	0.0	0.0	0.0	0.0	0.0
27	0.0	0.02	9.44	0.0	0.67	0.0	0.23	0.15	0.0	0.0 T	0.0	0.0
28	0 - 0	0.0	0.0 T	0.0	0.0	0.47	0.33	0.12	0.01	0.02	0.08	0.0
29	0.0		0.0	0.38	0.0	0.01	0.16	0.68	0.03	0.0	0.0	0.05
30	0.0		0.0	r 0.0	0.39	0.0	0.0	0.0	0.0	0.02	0.0 T	0.0
31	0.0		0.9		0.66		0.61	0.9		0.0		0.0
TCTAI	0.61	1.5)	1.38	2.94	6.69	1.56	2.66	2.53	1.42	1.37	1.11	0.09
STA AV	1.14	1-32	1.89	2.90	4.80	2.55	2.51	2.75	3.89	2.57	1.65	0.91

Caging: Thiessen weighted average of 21 gages for 1963-70, a Thiessen weighted average of 77 gages for 1971-75, and an arithmetic average of 73 gages for 1976 onward. Station Averages: 15 yr beginning 1963.

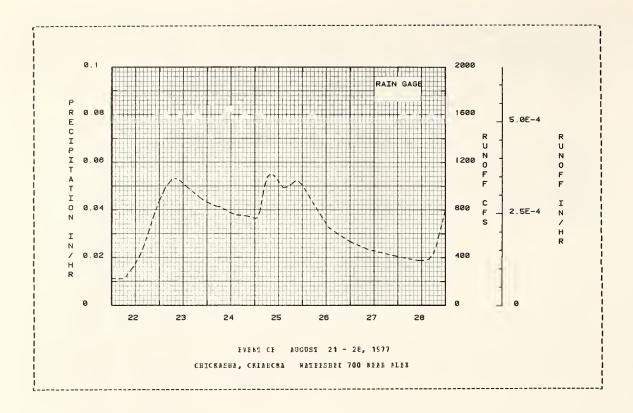
197	7	MEAN DAIL	Y LISCHAF	E (CFS)		СНІ	CRASEA, C	RIPECEA	WATERSHE	t 700 BEA	F 21EX	
Day	Jan	Feb	Bar	Apr	Pay	Jur	Jul	λυg	Seț	Cct	Bc▼	£ec_
1	122.5	160.3	144.3	117.7	282.2	5662.0	531.5	221.1	552.1	100.7	436.1	153.1
2	125.7	153.1	145.2	132.4	238.0	5664.2	842.8	194.5	549.1	102.2	422.4	153.1
3	130.7	153.1	222.€	120.5	625.9	5222.3	541.5	236.6	430.0	102.2	345.5	153.1
4	146.0	149.5	165.1	120.9	865.1	3212.5	382.0	363.1	319.5	112.9	263.6	153.1
5	137.4	153.1	163.9	111.4	609.0	2366.8	341.6	436.6	284.0	125.7	299.1	153.1
€	129.0	154.9	160.3	106.7	531.9	1980.3	331.7	260.7	261.4	124.1	214.4	153.1
7	120.9	151.3	158.5	102.2	747.2	1745.9	314.7	196.E	246.0	132.4	20€.2	153.1
ε	112.9	15 3. 1	149.5	103.7	1125.3	1597.2	291.0	180.7	224.7	129.0	214.4	153.1
5	112.5	151.3	149.5	103.7	1154.2	1484.1	274.5	175.1	231.0	127.4	222.6	154.9
10	105.2	149. 5	147.8	102.2	986.3	1395.9	261.4	153.1	216.4	146.0	214.4	153.1
11	105.2	163.5	156.7	97.7	724.5	1427.5	248.2	140.8	196.3	200.2	206.2	153.1
12	105.2	264.7	147.8	94.8	657.7	1400.4	239.5	127.4	184.6	206.2	196.3	162.1
13	112.9	224. 7	142.6	91.9	1575.2	1373.6	224.7	130.7	225.5	212.3	190.4	151.3
14	112.9	212.3	144.3	89.0	1255.2	130 F.O	208. F	140.8	224.5	216.4	192.3	153.1
15	112.9	196.3	142.6	97.7	754.5	1225.8	196.3	142.6	186.5	220.6	186.5	147.8
16	112.9	186.5	135.7	116.1	583.5	1179.2	188.4	132.4	175.1	224.7	176.9	149.5
17	112.9	192.3	132.4	116.1	463.2	1158.3	192.3	125.7	165.6	224.7	167.6	153.1
18	120 - 9	190.4	134.0	124.1	368.7	1154.2	173.2	125.7	158.5	231.0	163.9	151.3
19	146.0	178.8	130.7	129.0	624.7	1076-2	160.I	24E.1	149.5	235.3	156.7	147.8
20	158.5	171. 3	122.5	161. ፲	3529.4	730.9	145.5	296.4	139.1	233.1	160.3	146.0
21	158.5	16 2. 1	123.9	665.3	5558.1	569.4	176.0	235.1	129.0	233.1	153.1	144. E
72	158.5	158.5	119.3	531.9	4215.2	486.9	183.6	427.7	127.4	253.1	151.3	142.6
23	156.7	154.9	112.9	327.1	4009.4	447.2	156.7	974.6	119.3	24 E. 8	147.8	146.0
24	156.7	147.8	112.9	250.0	4023.3	425.1	146.0	786.∃	116.1	252.6	149.5	140.8
25	156.7	14 2. €	114.5	202.2	4044.3	433.3	140.8	992.3	114.5	234.7	151.3	142.6
2€	158.5	140.8	120.9	180.7	9157.1	469.7	134.0	719.8	114.5	375.4	151.3	142.6
27	156.7	144.3	144.3	165.8	4873.7	441.6	125.7	461.6	112.9	427.8	15 % 1	139.1
28	154.9	146.0	160.3	153.1	5021.3	436.8	122.5	446.2	10 8. 3	427.8	15 3. 1	140.8
29	137.4		144.3	162.9	4661.3	520.2	134.0	866.0	102.2	427.8	153.1	140.8
30	134.0		132.4	337.7	4557.4	572.3	142.€	599.0	97.7	432.3	153.1	140.8
31	129.0		124.1		5273.7		127.4	552.1		433.3		144.3
SEAR	132.3	168.1	142.2	173.9	2191.5	1572.9	247.8	357.5	208.7	250.0	202.9	148.8
INCHES	0.032	0.937	0.334	0.041	0.528	0.367	0.060	0.086	0.049	0.055	0.047	0.036
STA AV	0.053	0.951	0.072	9.058	0.178	0.172	0-070	0.062	0.090	0.079	0.089	0.053

Conversion Factor: CPS to IN/DAY, multiply by 0.000007776. Inches to AC-F1, multiply by 255,093.

								FD NC		
ARTECE	ENT CCRDI	TICNS	Date.	Time	INFALL	Acc	Late	Time	Fate	Acc.
tate ĕo-Dav	(irches)	(inches)	Mo-Day	of Cay	(in/hr)	inches)	Ec-Day	of Lay	(cfs)	Acc. [inches]
			E⊽F	NT CF A	0G0SI 21 -	28, 1577				
ε-2 1		0.003					8-21	2400	224.800	0.0
6-21		0.002					ε-22	530	222.900	0.0004
								700	239.800	0-0005
								1100	325.858	0.0005
								1400	412.358	0.0012
ATEFSBEC	CCRLITIONS	:								
	s∈ ci this								513.800	
	tersbed is								842.858	
	seascnally.								774.258	
	74 survey fo								863.955	
ged area	between st	aticus					8-25	300	951.058	0.0042
u and /u	scwed cre E%; alfal	00 - 21%; fa - 59:						600	1054.255	0.0052
store an	rarge - 6	0%:							1062.058	
scellane		• •						0.53	1055.358	0.0061
								1000	1046.255	0.0058
									\$75.358	
								2030	898.058	0 0060
									862.198	
							8-24		830.398	0.0121
							6-24	630	896.198	0.0127
								1130	778.258	C-0146
								1500	75€.59€	C.0148
								1930	749.800	0.0155
								2400	725.100	0.0170
							8-25	118 230	749.866 729.100 734.358 789.198	0.0172
								230	763.136	0.0170
								400	938.198	0.0180
								500	1013.598	0.0184
								630	1081.758	0.0189
									1058.458	
								900	1095.698	0.0198
								1000	1077.458	0.0201
									588.658	0.0214
								1618	551.758	0.0222
								20 30	1043.455	
								2200	1037.558	0-0241
								2400	1005.258	0.0247
							8-26		893.598	
							0 20		760.555	
								1300	654.858	
								1800	255.800	0.0292
								01100		
							8-27	2400	532.100 488.800	0.0303
							6-27	2000	466.600 406.156	0.0236
							8-28	1000	336 606	0.0339
							6-26	1500	378.698 377.398	0.0358
								1530	367.000	
								1800	438.600	
								1930		
									582.300	
								2200	671.858	6360.0

Conversion Factor: CFS to IN/BF, multiply by 0.0000003240.

Wotes: No precipitation record is shown because most of the watershed lies ontside of the area in which precipitation is measured.



69.007- 4

CHICKASEA, CKIABCEA WATERSHEE 111 BEAR ANADAEKO

LCCATION: Tonkawa Creek Watershed above County road South of Anadarko in Caddo County, Ckla.; tributary to Washita Biver; Red Biver Easin. GAGING STATION--NW1/A sec. 34, T. 7 b., E. 10 b., lat. 35 deg. 03 min. B.; long. 98 deg. 15 min. W.; 2 miles South of Aradarko, Ckla., on urstream side of section line road bridge.

26.00 sg. wiles 16634.03 acres

ac	RTHLY	PRECIF	ITATICN	AKE F	OFCFF	INCLES)		CFICKS	SEA, C	KIAFCE	¥47	FRSEEC	111 AE	AF ABAL	AFRC	
	_	Jan	$P \in b$	Far	A	r	8a y	Jun	Jul	2.2	ıg :	Se p	0ct	Bc ₩	ľ€c		lsalı
1977	F Q	0.45 3.066	1.59	0.0		. E3 . 107	E.01 0.301	1.73	1.38 J.01			1.25).ú	1.40	1.10 0.01			0.788
STA AV	g Q	0.80 0.085	1.38 0.092	1.8		. 8 . 1 67	9.36 0.198	2.74 0.101	2.05 0.04			3.75 0.040	2.29 0.037	1.67 0.07			1.065
	ANSU	DAL EAXI		CHARGE	in/h:	34A (:							SELECTE Interva		INTERV	ALS	
		lisch Dat∈		1 B	vcl.		vol.				Vol.		Fay Vol.		vol.	8 1 Dat∈	Toys Vol.
1977		5-27	0.006	5-27	0.006	5-27	0.012	5-27	0.027	5-27	0.039	5-27	0.054	5-27	0.088	5-19	0.177
						8	SBUBIKA	FOR E	FIOD C	B EECC	ED						
		5-10 (1964	0.046	5-10 1964	0.344	5-10 1564	0.080	5-10 1964	0.135	5-10 1564	0.145	5- 9 1964	0.234	5- 9 1964	0.295	5-31 1973	0.382

1977	E I	ILY PEEC	IFITATICN	(IECHES)		CBI	CKASEA, CI	CIAHCHA	WATEESEE	C 111 NEAE	AHADAEK	C
Day	Jan	Feb	Bar	Apr	May	Jnt	Jul	Aug	S∈p	Cct	BCV	E€C
1	G.O	0.0	0.0	0.0	0.96	0.0	0.14	0.10	0.0	0.0	0.03	0.01
2	0.0	0.02	0.04	0.0	0.65	0.0	0.0	0_0	0.0	0.0	0.12	0.0
3	0.0	0.04	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.21	0.0	0.5	C.0	0.0	0.31	0.0	0.06
=	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	98.0	0.0	0.0	0.0
٤	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.01	0.20	0.0
٤	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0
ç	0.18	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.15	0.0
10	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	1.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.17	0.02	0.0	0.0	0.0	0.04	0.0	0.0	0.19	0.0	0.0	0.0 T
13	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0
14	0.0	0.0	0.0	0.18	r 0.0	0.0	0 - 0	6.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.23	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.02	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	3.0	0.0	0.0	2.81	0.0	0.0	0.83	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	2.05	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.01	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0
22	0.03	0.0	6.0	0.10	0.0	0.33	0.11	0.0	0.0	0.94	0.0	0.0
23	0.02	0.0	0.0	0.0	0.0	0.18	0.0 T	0.0	0.0	0.10	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.34	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.18	0.14	0.0	0.87	0.42	0.0 T	0.0	0.0	0.0	0.0	0.0
27	0.0	0.02	0.40	0.0	1.15	0.0	0.17	1.11	0.0	0.01	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.60	0.14	0.09	0.02	0.0 T	0.03	0.0
29	0.0		0.0	0.0 T	0.0	0.02	0.13	0.71	0.05	0.0	0.0	0.01
30	0.0		0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.03	0.0	0.0
31	0.0		0.0		0.17		0.85	0.0		0.0		0.0
CIAI	0.45	1.59	0.59	2.83	E.01	1.73	1.38	3.03	1.25	1.40	1.10	0.08
TA AV	0.80	1.08	1.80	2.88	4.36	2.74	2.05	2.72	3.75	2.25	1.67	0.61

Air Temperatures: See table for Matershed M-700, (69.007) of this publication. Gaging: Thiessem weighted average of 6 rain gages Station Averages: 17 yr beginning 1961.

Cooperative Besearch Project of USEA and Cklahoma Agricultural Experiment Station

Vatershed Conditions: From a revised 1974 snrvey; sowed crop - 16%; row crop - 1%; alfalfa - 2%; pasture and range - 72% and miscellaneous - 9%.

Haps: Bydrologic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Pisc.

Finh. 1216, page 69.7-27. Topographic/Geclogic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, USDA Misc. Finh. 1070, pages 65.7-9 and 65.10-4.

Frecipitation: Fecords began Cot. 1961. Thiessen weighted average of 6 gages.

Binnoff: Becords began Jine 1962.

Long-Term Frecipitation: Wational Weather Service records at Chickasha, Ckla.

197	7	MEAN DAIL	Y DISCHAR	GE (CFS)		CBI	CRASEA, C	RIABCMA	WATEFSHEE	111 NEAS	AKAEAERC	
Day	Jan	P∈b	Mar	Apr	Bay	Jur	Jul	Aug	S€ŗ	Oct	Nov	D€C
1	0.91)	1.710	1. 713	2.090	1.800	6.130	1.090	0.010	0.0	0-0	0.143	0.250
2	1.000	1.890	1.690	2.198	4.830	4.710	1.150	0.010	0.0	0.0	0.128	0.260
3	1.150	1.890	1.803	2.190	3.370	3. € 40	1.000	0.0	0.0	0.0	0.1€0	0.320
4	1.220	1.990	1.62v	2.090	4.230	2.560	0.510	C.0	0.0	0.0	0.160	0-460
5	1.150	1.800	1.623	1.990	3.370	2.190	0.830	0.0	0.0	0.0	0.160	0.760
6	1.150	2.190	1.633	1.990	4.540	1.890	0.830	0.0	3.0	0.0	0.190	0.560
7	1.220	2. €20	1.620	1.379	3.240	1.620	0.690	0.0	0.6	0.0	0-150	t.620
8	1.090	2.400	1.620	1.090	2.743	1.540	0.620	0.0	0.0	0.0	0.620	0.690
9	0.910	2.090	1.710	1.220	2.400	1.370	0.510	0.0	0.0	0.0	0.410	0.460
10	0.910	1.990	1.890	1.300	2.190	1.220	0.560	0.0	0.0	0.0	0.280	0.320
11	0.760	5.518	1.800	1.220	2.090	1.150	3.460	0.0	0.0	0.0	U.280	0.360
12	0.760	6.695	1.450	1.220	1.890	1.220	0.360	0.0	0.0	0.0	0.260	0.560
13	2.190	5.040	1.€20	1.220	1.710	1.453	0.320	0.0	0.0	0.0	0.280	0.460
14	2.620	4.540	2.090	1.453	1.710	1.370	0.256	0.0	0.0	0.0	0.250	6.360
15	1.890	3.240	3.643	1.890	1.629	1.226	0.280	0.0	0.0	0-0	0.260	0.3€0
16	1.450	2.620	1.990	1.890	1.540	1.220	0.090	0.0	0.0	0.0	0.260	0.320
17	1.620	2.400	1.890	2.400	1.540	1.150	0.040	U_0	0.0	0.0	0.250	0.320
18	1.300	2.290	1.800	2.400	1.540	1.150	0.010	0.0	0.0	0.0	0.250	0.320
19	1.540	2.190	1.600	2.190	21.441	1.698	J.6	0.3	0.0	0.0	0.250	0.360
20	1.620	2.090	1.620	2.919	20.212	1.220	0.0	0.0	0.0	0.0	0.250	0.320
21	1.710	2.190	1.620	11.936	18.137	1.090	0.0	0.0	0.0	0.0	0.220	0.320
22	1.620	2. 190	1.450	5.210	8.920	1.003	0.453	0.0	0.0	0.0	0.220	0.320
23	1.890	1.990	1.€20	4.390	6.130	1.220	1.000	0.0	0.0	0.160	0.220	0.320
24	2.090	1.800	1.710	E. 510	4.710	1.150	0.560	0.0	0.0	0.060	0.220	0.320
25	1.890	1.800	1.890	2.860	3.510	1.300	0.160	0.0	0.0	0.050	0.220	0.360
2€	1.890	1.800	2.190	2.980	2.769	1.990	0.010	0.0	0.0	0.090	0.220	0.360
27	1.850	1.800	3.510	2.740	35.147	1.370	3.010	0.0	0.0	0.050	0.220	0-410
28	1.710	1.800	3.110	2.090	16.180	1.220	0.060	0.0	0.0	0.100	0.220	0.410
29	1.540		2.290	1.800	10.700	1.540	0.040	0.730	0.0	0 - 140	0.250	0.410
30	1.620		2.193	1.800	7.550	1.000	0.0	0.020	0.6	0.220	0.250	0.460
31	1.520		2.090		8.799		0.0	0.0		0.220		0.460
BEAN	1.4816	2.5987	1.9507	2.4911	€.7920	1.7470	0.2965	0.0248	0.0	0.0365	0.2447	0.4068
INCHES	0.0€€	U-104	0.087	0.107	0.301	0.075	0.018	ü-001	0.0	0.002	0.010	0.018
SIA AV	0.085	0.092	0.135	0.167	0.193	0.101	0.047	0.024	0.040	0.037	0.071	0.069

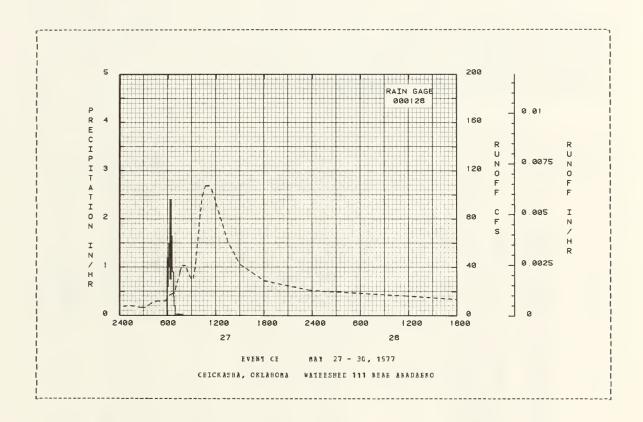
Staticn Averages: 16 yr beginning 1962.
Conversion Factor: CFS to IN/DAY, multiply by 0.001431. Arches to AC-F1, multiply by 1,386.

7 SELECTED FOR	OFF EVENT				ASHA, CKIA			111 BEAF 28	ALBERC
NEARCHERM CCMDI				INFALL			EO NC	EF	
Tate Rainfall fo-Day (irches)					Acc. (inches)	Eat∈ Ec-Day	Tife of Cay	Fate (cfs)	Acc. (inches)
		EVE	NI OF	5AY 27 -	30, 1977				
BG 000128			EG 003	128					
5-27 0.0	0.000	5-27	555	0.0	0.0	5-27		7.550	0.0
			556	1. 2000	0.02		53	E.220	0.0002
			558	1.2000	0.06		123	E-220	0.0004
			601	1.0000	0.11		230	6.720	0.0009
ATERSHED CONCITIONS			€04	0.6000	0.14		311	8.720	0.0012
om a revised 1974 s			€07	1.0009	0.19		400	10.700	0.0016
ed crop - 16%: row			605	1.5000	0.24		436	12.090	0.0020
alfalfa - 2%: pas			6 14	1-4400	0.36		541	12.050	0.0028
range - 72%; and			€ 1€	1.5000	0.41		618	17.550	0.0034
ecns - 9%.			617	2.4003	0.45		648	18.650	0.0039
			625	0.7500	0.55		7.30	95.190	0.0050
			6 2 6	2.4000	0.59		741	39.850	0.0054
			€28	1.2000	0.63		748	41.520	0.0057
			632	1.6500	0.74		€11	41.520	0.0067
			635	1.0000	0.75		818	39.640	0.0069
			€39	0.5000	0.85		853	30.820	0.0081
			643	0.3000	0.91		911	30.820	0.0067
			646	0.4000	0.93		930	44.110	0.0094
			655	0.2000	0.56		1000	80.540	0.0113
			70€	0.0	0.96		10 18	\$9.370	0.0129
			723	0.0353	0.97		1041	107.360	0.0152
			730	0.0	0.57		1111	107.360	0.0184
			751	0.0286	32.0		1130	104.110	0.0264
							1330	60.570	0.0303
							1500	42.370	0.0349
							1800	28.800	0.0413
							2400	20.620	0.0501
						5-28	1200	16.160	0.0633
							2400	13.440	0.0864
						5-29	1200	10.700	0.0550

Conversion Factor: CPS to IN, HF, multiply by 0.00005562.

1977 SELEC	TEE BUNG	FF FVENT			CHICI	ASHA, CR	W ASSEST	ATEESBEC 1	11 SEAF #	DIABRC
	CCNCIT: irfall iches)	ICES Suncff inches)	Dat∈ Mo-Day	Time of Lay	Intersity (in/tr)	Acc.	[at∈ :) Bc-Lay	FUNCE Time of Day	E Fat∈ (cfs)	acc. inch∈s)
			EVENT CE	7 1.5	27 - 30,	1977 (C	CNTINUEC)			
							5-29 5-30	2403 1203 2400	5.125 7.550 7.130	0.1104 6.1163 0.1271

Conversion Factor: CFS to IE, EF, sultiply by 0.00015562.



CHICKASEA, CKIABOBA WATERSHED 131 NEAS ANADABRO

IOCATION: Delaware Creek Watershed above County road bridge East of Aradarko in Caddo County, Ckla.; tritutary to Washita Fiver; Pec Siver Basin. GAGING STATION--NW1/4 sec. 29, 7. 7 N., N. 9 W., lat 35 deg. 03 min. N., lorg. 98 deg. 10 min. N., 3 miles East and 1 mile South of Anadarko, Ckla., at section line road bridge.

25660.09 acres 40.10 sg. miles AREA:

80	NTHL	PRECIE	ITATI CN	ANE RUNO	F (INCEE	E)		CHICRASH	A, CRIABC	ea wa:	EBSHED	131 KEAR	a na ca f k c	
		Jan	Feb	.ar	Apr	ŧау	Jun	Jul	Atg	S∈p	Oct	Nc v	D∈c	Aroual
1977	P Ç	0.53 0.036	1.65	0.93 0.063	4.47 0.235	9.87 9.858	1.76 0.113	1.58 0.017	3.05 0.013	1.22 0.003	1.71 0.003	1.18 0.015	0.10 0.024	26.05 1.461
STA AV	P Ç	0.88 0.263	1.19 0.077	1.84 0.114	2.99 0.130	4.63 0.212	2.74 0.055	2.26 0.038	2.60 9.014	3.78 0.020	2.44 0.030	1.78 0.042	0.87 0.051	28.00 0.887
	ANN	AL MAXI Maxi Disch	 nun	CHAFGE (in		b			CFF (inch or Select	ed Time				Cays
		Dat∈												
		Date	Bat∈	Cat∈ Vo:	l. Daτ∈	Vcl.	vat∈	Vcl. Da	at∈ Vcl.	rat∈	Vol.	Cat∈ V	cl. Dat	€ Vol.
1977		5-31		5-E1 0.0									1c1. Dat	e Vol.
1977)46 5-E1	0.391	5-30		-30 0.34					e Vol.

1977	Di	AILY PRECI	FITATION	(INCHES)		CHI	CKASEA, CH	LAECHA	WATERSHEE	131 NEAS	AKACAFRO	:
Cay	Jan	Feb	har	Agr	Eay	Juu	Ju1	Auç	Sep	Cct	\fov	Dec
1 2 2 4 5	0.0 0.0 0.0 0.0 0.0	0.0 0.01 0.04 0.0 0.0	0.30 0.30 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.52 0.57 0.39 0.09 0.41	0.0 0.0 0.0 3.0	0.45 0.0 0.0 0.0	0.09 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.78	0.0 0.0 0.0 0.32 0.0	0.04 0.06 0.0 0.0	0.01 0.0 0.0 0.05 0.05
6 7 8 9	0.03 0.0 0.09 0.19 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 r 0.0 0.0 0.0	0.0 0.26 0.56 0.22 0.0	0.0 0.0 0.0 0.0
 11 12 13 14 15	0.0 0.16 0.01 0.0	1.40 0.0 I 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.9	0.0 0.0 0.01 0.17 0.27	0.0 0.0 0.01 0.02 0.05	0.0 0.28 0.0 0.0	0.0 0.0 0.0 0.0	0.0 T 0.0 0.05 0.01 0.0	0.0 0.33 2.01 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.27 0.0 T 0.0 0.0 2.51	0.0 0.0 0.0 2.45 0.64	0.0 0.0 0.0 0.0	0.0 0.3 0.0 0.0	0.0 0.0 0.0 0.63	0.9 0.0 0.9 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.02 0.03 0.0 0.0	0.9 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.17 0.0 0.0	0.01 0.0 0.0 0.0 0.0	0.0 0.23 0.19 0.07 0.03	0.01 0.02 0.0 1 0.0	0.0 0.0 0.0 0.52	0.0 0.0 0.0 0.0	0.0 1.27 0.10 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 27 28 29 30 31	0.0 0.0 0.0 0.0 0.0	0.17 9.73 0.0	0.18 0.38 0.0 0.0 0.0	9.9 0.0 0.9 0.37 0.9	0.99 1.92 0.0 0.0 1.94 0.56	0.E0 0.0 0.65 0.01	0.0 0.13 0.35 0.15 0.0	0.0 0.61 0.17 0.56 0.0	0.0 0.02 0.02 0.08	0.0 0.0 9.0 T 0.0 0.02	0.0 0.0 0.04 0.0	0.0 0.0 0.0 0.04 0.0
TCTAL STA AV	0.53 0.88	1.65 1.19	0.93 1.84	4.47 2.55	9.87 4.63	1.76 2.74	1.58 2.26	3.05 2.60	1.22 3.78	1.71 2.44	1.18 1.78	0.10 0.87

Air Temperatures: See table for Watershed W-700, (69.007) of this publication. Gaging: Thiesset weighted average of 10 rair gages. Station Averages: 17 yr beginning 1961.

Cooperative Research Project of USDA and Cklahoma Agricultural Experiment Station

Watershed Conditions: From a revised 1974 survey; soved crop - 11%; row crop - 3%; alfalfa - 2%; pasture and range - 70%; and miscellaneous - 10%.

Majes: Topographic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USIA Misc. Eub. 1070, page 69.11-4. Composite - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, page 69.7-21.

Precipitation: Fecords began Cot. 1961. Thiessen weighted average of 10 gages.

Runoff: Fecords tegan Aug. 1862.

Long-Term Frecipitation: National Weather Service records at Chickasha, Okla.

1977		BEAN DAIL	A CISCHAR	GP (CFS)		CBIC	KASEA, CR	INECHA	WAIFESBEE	131 BEAS	FRACTERC	
Day	Jan	Peb	far	şţı	бау	Jur	Jul	£09	S€F	Cct	Bo¥	E∈c
1	0.95	1.53	2.40	1.75	3.44	27.75	1.79	1.11	0.11	0.03	0.19	0.72
2	1.21	1.98	2.75	1.89	38.84	11.57	2.19	0.16	0.06	0.03	0.23	0.72
3	1.37	2.08	4.47	1.70			1.37	0.09	0.05	0.04	0.25	0.77
4	1.53	1.98	2.75	1.61	19.55	6.75	1.14	0.07	0.05	0.06	0.23	C.77
5	1.14	1.89	2.40	1.37	6.73	5.73	1.08	0.05	0.92	0.06	0.25	0.83
€	0.95	1.79	2.40	1.44	12.44	4.81	0.95	0-04	0.28	0.06	0.25	0.67
7	0.95	1.70	2.29	1.37	5.16	4.15	0.89	0.04	0.14	0.05	0.28	0.72
8	1.37	1.79	2.19	1.37	3.64	3.84	0.83	0.04	0.11	0.04	0.95	0.83
ç	0.63	1.79	2.08	1.29	3.27	3.40	0.63	0.05	0.08	0.04	0.55	0.67
10	0.83	1.79	2.19	1.21	2.88	3 . 1 3	0.77	0.05	0.06	0-04	0.62	0.72
11	0.83	9.78	2.19	1.21	2.63	2.75	0.67	0.06	0.06	0.03	0.53	0.83
12	0.83	12.72	1.69	1.21	2.52	3.13	0.57	0.06	6.06	0.03	0.53	1.14
13	0.83	4.81	1.89	1.37	2.29	3.40	0.45	0.97	0.25	0.04	0.53	0.95
14	1. 14	3.55	1.79	1.37	2.29	2.€3	0.41	0.06	0.14	0.04	0.57	9.83
15	1.14	2.88	1.79	2.52	2.08	2.29	0 - 41	0.06	0.07	0.04	0.57	0.83
16	0.95	2.38	1.73	2.08	1.98	2.19	3E.0	0.05	0.05	0.04	0.57	0.77
17	0.83	2.75	1.69	3.13	1.70	1.58	0.34	0.05	0.04	0.04	0.57	0.72
18	0.72	2.52	1.79	2.29	1.61	1.70	0.28	0.05	0.04	0.04	0.53	0.72
19	0.83	2.40	1.70	1.85	53.75	1.70	0.23	0.09	0.04	0.05	0.57	0.77
23	0.83	2.40	1.61	€9.66	67.90	1.73	0.20	0.11	0 - 0 4	0.06	0.62	0.72
21	1.58	2.40	1.61	107.60	36.34	1.53	0.20	0.07	0.03	0.04	0.49	0.67
22	1.89	2.40	1.61	11.97	7.68	1.94	0.20	0.05	0.03	0.08	0.49	0.77
23	2.25	2.08	1.61	9.65	5.35	2.08	0.20	0.05	0.03	0.57	0.62	0.83
24	2.08	1.98	1.79	€.12	4.15	1.58	0 - 29	0.08	0.03	0.23	0.82	0.83
25	1.89	1.38	1.98	4.81	3.27	1.89	0.12	0.38	0.03	0.16	0.62	0.77
2€	1.98	2.52	1.53	3.84	3.00	2.08	0.11	0.06	0.03	0.16	0.62	0.77
27	1.79	2.75	4.58	3.27	67.01	1.79	0.16	0.04	0.03	0.14	0.62	0.83
28	1.14	2-40	3.84	2.88	15.95	1.61	0.20	1.53	0.04	0.18	0.67	0.95
25	1. 14		2.08	2.66	6.75	2.€8	0.57	E.61	0.26	0.20	0.67	1.08
30	0.95		1.70	2.38	82.18	1.44	0.18	35.0	0.03	0.20	0.67	1.08
31	1.29		1.81	_,,-,-	425.65		0.12	0.20		0.23		1.08
BEAB	1.291	2.972	2.197	8.589	25.854	4.078	0.583	0.462	0.100	0.111	0.529	0.818
INCHES	0.036	0.077	0.063	0.239	0.858	0.113	0.017	0.013		0.003		0.024
SIA AV	0.063	0.077	0.114	0.130	0.212	0.095	0.038	0.014	0.020	0.030	0.042	0.051

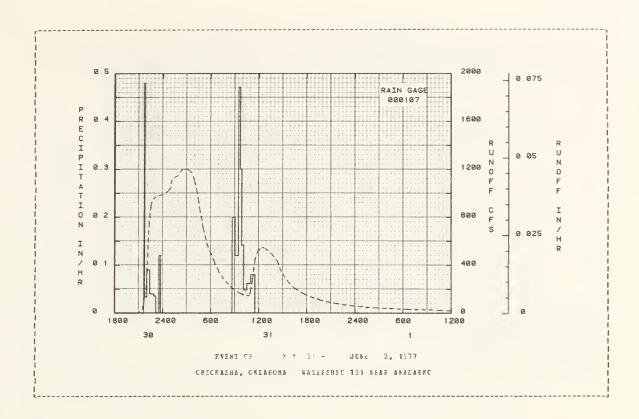
Ctation Averages: 16 yr begirning 1962. Conversion Eactor: CFS to IM/CAY, multiply by 0.0039276. Inches to AC-FI, multiply by 2,138.

	SELECTED BUN									
£at∈	Bainfall	Funcff	Date	lise	Intensity	Acc.	Cat∈	Tiπ€	Eat€	Acc.
	(inches)	(inches)	ĕo-£ay	of Day	(in/hr)	(inches)	ëo-Lay	of Cay	(cfs)	(inches)
			EVENT OF	5 A Y	30 -	JONE 2	1977			
	FG 000107			BG 000	107					
5-30	0.0	0.004	5-30	2128	0.0	0.0	5-30	2348	4.150	0.0
				2143	0.4800	0.04		2106		0.0001
				2201	0.0333	0.05		2 1 3 0	30.980	0.0004
				2221	0-0500	30.0		2136		0.0006
				2221 2251	0.0400	0.10		2141		0.0005
WATERSEE	D CCRITIONS	•								
	vised 1974 s			2308	0.0353	0.11		2148	176.400	0.0016
oneg cro	p - 11%; rcw	CICF -		2333	0.0	0.11		2153	197.660	0.0022
%; alfal	fa - 2%; pas				0.1200	0.13		2200	286.638	0.0033
nd range	- 74%; and	∎iscel-		2352	0.0	0.13		2206	472.628	0.0048
anecus -			5-31	840	0.0	0.13		2211	627.465	0.0065
				901	0.2000			2218	768.198	0.6097
				9 2 6	0.1200	0.25		2223	€32.2€0	0.0123
				940	0.4714	0.38		2230	883.370	0.0161
				950	0.3000	0.41		2236	925.658	0.0196
				1007	0.1412	0.45		2248	954.070	0.0269
				1032	0.0480			2306	968.350	0.0380
				1101		0.50			550.648	0.0721
				1131	0.0800	0.54	5-31	36	10 14.658	0.0953
								100	1051.708	0.1113
								106	1111.858	0.1155
								136	1138.148	0.1372
								153	1148.020	0.1498
								218	1187.698	0.1686
								223	1156.010	0.1724
								236	1201.000	0.1624
								253	1201-000	0.1956
								306	1196.010	0.2056
								336	1169.479	0.2265
								353		0.2410
								406	1066.290	0.2502

Conversion Factor: CFS to IM/BE, sultiply by 0.00003865.

* FEET CE DE	« CCNDTO	TONG			CBICE TREALL			E D. H. C.	-	
Date B	ainfall	Buncff	Date	Time	Intersity	Acc.	Date	Time	Fate	Acc.
c-Day (itches)	(inches)	Mo-Lay	of tay	Intersity (in/hr)	(inches)	Mc-Eay	of Day	(cfs)	(inches)
		EVERT C	P PA	7 30 -	JDNE	2, 1977	(CCNTINU	ED)		
							5-31	418		0.2561
								430	514.648	
								441		C. 2717
								453		C.2779
								500	723.110	0.2813
								511	£74.1EE	0.2663
								523	613.020	0.2912
								541		0-2960
								E06	464.936	
								636	404.62€	
								706	335.10€	0.3220
								736		0.3280
								636		D.3376
								936		0.3449
								100€	150.400	0.3480
								1036	145.810	(.3509
								1048		0.3520
								1053		0.3520
								110€		0.3540
								1111	260.519	0.3546
								1118		0.3561
								1123	361.370	
								1136		0.3608
								1153	516.658	
								1211	540.446	0.3723
								1223	546.070	0.3765
								1236	546.070	
								1248		0.3853
								1336		0.4012
								1418	433.416	0.4138
								1448		0.4213
								1536	265.62€	
								1630	205.050	0.4350
								1600		0.4491
								2000		0.4567
								2200	74.860	0.4656
								2460		0.4707
							6- 1	300		0.4765
							٠,	700		0.4821
								1030	26.150	0.4660
								1800		0.4925
								2400		0.4964
							6 - 2	1200	11.970	0.5026

Conversion Factor: CFS to IN/BF, multiply by 0.00003865.



CHICKASEA, CKIAHCHA WATERSHED 511 NEAR TARIER

LCCATION: West Eitter Creek Watershed above U.S. Highway 62 bridge, East of Chickasha in Grady County, Ckla.; tributary to Washita Biver; Red Fiver Pasin. GAGING SINTION-SW1/4 sec. 29, 1. 7 N., P. 6 W., lat. 35 deg. 03 wir. N., long. 97 deg. 51 min. W., 4 miles East of Chickasha, Ckla., at U.S. highway 62 bridge.

àBFA: 38020.00 acres 59.40 sg. miles

HC.	HEN	Y PHECIP	ITATICH	AND FUNCI	F (IBCEE	S)		CEICKASBA	, CKLAHC	BA RAS	FRASHEE	211 DEB	S TARLE	В	
		Jan	E∈b	Har	ytr	Hay	Jun	Jul	₽cg	Seŗ	Cct	Bc v	L∈c		Arrual
1977	E Q	0.35 0.042	1.43	1.25 0.049	2.94 6.079	8.19 1.051	2-44 0-076	1.79 0.338	1.54 0.305	0.60 0.003	1-44	1.05 0.024	0.10		23.36 1.453
SIA AV	P Q	0.82 0.060	1.16 0.090	2.04 0.225	2.94 0.307	3.52 0.420	3.06 0.363	2.27 0.115	2.90 0.15€	3.58 0.185	2.47 0.166	1.76 0.126	0.94		27.84 2.312
	ANN	UAL MAXI Baxi Disch		HAEGE (is	·			S OF EURO		ed Time					 Cays
	RNA	5axi	 mum arge		2		Haxiwum 6 Bc	Volume fo	r Select	ed Time	Interva	1	ys	8	Cays Vol.
1977	иид	Baxi Disch	mum arge Rate	1 Hour Date Vol	2 Date	Hcurs Vol.	Maxiwum 6 Bc Date	Volume fo	r Select 2 Bours te Vol.	ed Time 1 Late	Interva Day Vol.	1 2 Da Date	ys Vcl.	8 Date	Vol.
1977	RIL	Baxi Disch Date	mum arge Rate	1 Hour Date Vol	2 Date	Hours Vol.	Maxiwum 6 Ec Date 5-20	Volume fours 1	r Select 2 Hours te Vol.	ed Time 1 Late	Interva Day Vol.	1 2 Da Date	ys Vcl.	8 Date	Vol.

1977	, Di	AILY PEECI	FITATICE	(IBCHES)		CBI	CKASEA, CI	KLAECHA	WATERSBEI	511 KEAI	TAFIFF	
Сау	Jan	₽eb	Bar	Afr	May	Juc	Jnl	Aug	Seţ	Cct	Bov	Dec
1	0.0	0.0	0.0	0.0	0.24	0-6	1.02	0.09	0.0	0-0	0.04	r 0.0
i 2 I 3	0.0	0.0 I	0.33	0 - 0	0.26	0.0	0.0	0.0	0.0	0.0	0.04	0.0
1 3	0.0	0.25	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.01	0-0
4	0.0	ŭ-0	0.0	U. 0	0.10	0.0	0.0	0.0	0.09	0.45	0.0	0.04
5	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.16	0.0 I	0.0	0-0
€	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	r 0.0	0.0	0.0	0.0
1 7	0-0	0-0	0.0	0.3	0.0	0.0	0.ŭ	6-0	0.0	0.04	0.02	0-0
3	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.69	0.0
į ç	0.16	0-0	0.0	0.0	0-0	0-0	0-0	0-0	0.0	0.0	0.17	0.0
1 10	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.01	0-10	0.0	0.0	0.0
11	0.0	1.24	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
12	0.11	0.01	0.8	0.0	0.0	0.27	0.0	0.0	0.21	0.0	0.0	0.0
13	0.02	0.0	0.0	0.05	0.42	0.0	0.0	0.07	0.23	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0-0	0.0	0.0	a-0	0.0
15	0.0	0 -0	0.0	0.34	0.18	0.0	0.14	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.23	0.02	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0
17	0.0	0.0	0.01	0.0 I	0.01	6.0	0.0	0.0	0.0	0.0	0.0	0-0
18	0.0	0.0	0.0	r 6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
19	0.0	0.0	0.0	0.0 I	2.60	0.0	0.0	0.57	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	2.04	1.71	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.01	0.03	Ó.O	0.01	0.0	0.0	0.0	0.0	0.0
22	0.02	0.0 T	0.0	0.04	0.0	0.36	0.0	0.0	0.0	0.64	0.0	0.0
23	0.03	0.0	r 0.6	0.0	0-0	0.03	0-0	0.0	0.0	0.24	0.0	0.0
24	0.0	0.0	r 0.6	0.0	0.0	0.07	0.0	0.21	Ü.0	0.0	0.0	0.0
2.5	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.12	0.25	0.0	0.68	0.23	0.05	0.0	0.0	0.0	0.0	0.0
27	0.0		. 0-45	U. 0	ŭ-41	0.0	0.37	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0 T	0.0	0.0	0.63	0.0€	0.0 I	0.0	0.01	0.08	0.0
25	0.0	-	0.0	0.23	0.0	0.01	0.04	0.58	0.01	0.0	0.0	0.06
30	0.0		0.0	0.0 T	0.06	0.0	0.0	0.0	0.0	0.06	0-0	0.0
31	0.0		0.0		0.63		0.10	0.0		0.0		0.0
TCTAI	0.39	1.43	1.25	2.54	£.19	2.44	1.75	1.54	0.80	1.44	1.05	0.10
STA AV	0.82	1.16	2-04	2.94	E-92	3.0€	2.27	2.90	3-58	2.47	1.76	0.54

Air Temperatures: See table for Watershed W-700, (69.007) of this publication. Gaging: Thiesser weighted average of 15 rain gages.
Station Averages: 17 yr beginning 1961.

Ccoperative Research Troject of USDA and Cklahoma Agricultural Experiment Station

Watershed Conditions: Prom a revised 1574 survey; sowed orog - 23%; row orog - 3%; alfalfa - 3%; pasture and range - 67% and miscellaneous - 5%.
Baps: Composite/Topographic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USIA Misc. Fub. 1216, pages 65.7-21 and 65.15-11.
Precipitation: Fecords hegan Cot. 1961.
Brunoff: Becords tegan Oct. 1962.
Long-Term Precipitation: Wational Weather Service records at Chickasha, Ckla.

1977		MEAN DAILY	r rischar	GB (CFS)		C81	CRASEA, CI	KLASCHA	SATERSSEI	511 KEAL	STAFLEE	
Day	Jan	₽eb	Bar	Apr	Bay	Jnr	Jal	Ang	Sep	Cct	NC V	Ç∈c
1	1.48	2.55	2.31	1.97	2.08	13.68	27.77	0.15	0.30		0.81	1.48
2	1.48	2.62	3.24	2.31	€.50	5.75	15.23	0.19	0.22	0.64	0.81	1.48
3	1.48	2.82	3.09	2.19	3.61		4.03	9.15	0.15	0.04	0.67	1.57
3	2.82	2.68	3.09	2.0 €	22.49	2.95	2.15	9.08	0.15	0.08	0.87	1.39
5	2.19	2.43	2.55	1.97	3.54	2.43	1.48	2.04	0.17	0.45	0.93	1.39
٤	1.48	2.43	2.55	1.88	3.09	2.19	1.23	0.03	0.27	0.59	0.93	1.31
7	1.48	2.43	2-43	2.43	2.43	1.57	1.03	0.93	0.30	0.45	0.53	1.31
8	1.48	2.55	2.19	2.31	2.43	1.86	0.87	0.02	0.24	0.37	1.66	1.39
9	1.48	2.55	2.82	2.08	1.57	1.78	0.87	0.02	0.19	0.27	2.55	1.31
10	1.48	2.55	2.19	1.66	1.86	1.66	0.75	0.02	0.13	0.24	1.97	1.15
11	1.48	4.04	2.68	1.76	1.66	1.49	0.59	0.04	0.11	0.17	1.39	1.15
12	1.48	7.93	2.55	1.39	1.68	1.57	0.41	0.04	0.17	0.13	1.23	1.39
13	1.48	4.38	2.19	1.57	1.57	4.72	0.34	0.07	0.34	0.15	1.31	1.48
19	1.57	3.39	2.19	1.7€	2. 82	2.08	0.27	0.11	0.59	0.19	1.23	1.39
15	2.55	2.82	2.43	2.31	1.57	1.86	0.24	0.13	0.37	0.22	1.31	1.31
16	2.82	2.68	2.69	2.43	4.42	1.48	0.27	0.11	0.27	0.34	1.31	1.23
17	2.55	2.55	2.08	2.43	5.15	1.48	0.27	0.07	0.19	0.27	1.31	1.15
18	1.97	3.67	2.43	2.55	2.08	1.31	0.22	0.05	0.15	0.27	1.31	1.23
15	1.57	2.91	2.31	2.43	245.11	1.15	0.19	0.15	0.09	0.30	1.15	1.15
20	2.55	2.88	2.43	4.30	638.69	1.23	0.45	0.89	0.08	0.30	1.23	1.07
21	2.95	2.82	2.19	57.25	441.56	1.48	0.15	0.49	0.07	0.24	1.07	1.07
22	2.95	2.6€	2.08	5.34	82.37	1.23	0.17	0.37	0.05	0.27	1.07	1.15
2 Ξ	3.09	3.39	2.08	3.70	48.80	1.66	0.19	0.30	0.04	1.00	1.15	1.23
24	3.05	2.55	2.08	2.95	28.43	1.68	0.17	0.27	0.94	1.07	1.31	1.23
25	2.82	2.55	2.19	2.43	20.47	5.01	0.11	0.45	0.04	0.75	1.31	1.15
2 &	2.95	2.43	2.68	2.31	13.42	4.54	0.11	0.22	0.04	0.64	1.31	1.07
27	2.95	2.43	3.85	2.19	42.66	2.31	0.24	0.11	0.04	0.64	1.39	1.15
28	2.31	2.43	4.03	1.97	14.43	1.66	0.34	0.07	0.07	0.84	1.39	1.48
25	1.97		3.05	2.19	83.3	42.15	0.41	0.57	0.05	0.64	1.39	1.39
30	1.97		2.31	2.31	4.75	3.53	0.34	2.07	0.35	0.64	1.39	1.39
31	1.97		1.97		19.88		0.19	0.49		0.89	,	1. 48
EEAP	2.151	3.002	2.529	4.214	54.168	4.059	1.571	0.247	0.167	0.392	1.263	1.294
INCHES	0.042	0.053	0.049	0.079	1.051	0.076	0.038	3.005	0.003	0.008	0.024	0.025
SIA AV	0.080	0.050	0.225	0.337	0.420	0.363	0.115	0.158	0.165	0.166	0.126	0.076

Ctation Averages: 16 yr beginning 1962. Conversion Factor: CPS to IM/CAY, wnltiply by 0.0008260. Inches to AC-PT, wultiply by 3,188.

CHICKASFA, CKIAHCMA WATERSEED 110 NEAR ANADAHKO

LCCATION: Tonkawa Creek Watershed above county road East-Northeast of Anadarko, in Caddo County, Okla.; tribntary to Washita Fiver: Fed Biver Easin. GAGING STATION-NET/4 sec. 18, 1. 7 K., E. 9 W., lat. 35 deg. 05 mim. N., long. 58 deg. 11 mim. W., 2-1/2 miles East of Anadarko, Okla., on mpstream side of section line road bridge.

AREA: 25020.0v acres 39.10 sg. miles

ИC	KIBLY	PRECIE	ITATICN	ANC FO	NCFF (I	MCBES)		CEICKA	SEB, C	CKIAHCH	A WA	IERSEEC	116 BE	IANA I	AFEC	 -
		Jan	P∈b	Mar	A F I		May	Jun	Jul	Au	19 :	er	0ct	∦C.A	D€C		Artusl
1977	E Q	0.46 0.013	1.58 0.045	0.59			E.11 0.174	1.75 0.061	1.32 0.00			1.25	1.53 0.0	1.10 0.0	0.0		23.74 0.386
SIA AV	P Q	0.81 0.020	1.08 0.032	1.83 0.04			4.29 0.098	2.77 0.045	2.04 0.01			3.70 3.002	2.26 0.001	1.65 0.018	0.8		26.90 0.364
	ANNO	ixs#	 DU A				 <u>1</u>	axiouo	Volume				SELECTE Interva		INTERV	ALS	
		Discb Dat∈		1 Ho			Vol.		Vol.	12 E Dat∈	Vcl.		Day Vcl.	2 Da Cat∈	vcl.		vol.
1977		5-21	0.001	5-22	ŭ.002	5-22	0.003	5-22	C.01ò	5-22	0.020	5-21	0.030	5 -21	0.056	5 -20	0.139
							AXIMUMS	ECR F	ERICD C	FFEC	ED						
		5-11 1964	0.664	5-11 i		5-11 1964	0.007	5-11 1964	0.021	5-11 1964	0.038	5- 6 1969	0.070	5- 6 1969	0.127	5- 4 1969	0.278

Ratershed Conditions: From a revised 1974 snrvey; sowed crcp - 28%; row crop - 6%; alfalfa - 6%; fasture and range - 34%; and miscellaneons - 26%.

Raps: Topographic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USCA Bisc. Pub. 1070, page 65.10-4. Composite - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Fisc. Pub. 1216, page 65.7-21.

Frecipitation: Fecords began Oct. 1961. Thiessen weighted average of 10 gages.

Funoff: Records began April 1963.

Long-Term Frecipitation: National Weather Service records at Chickeshe. Okla.

long-Term Frecipitation: National Weather Service records at Chickasha, Okla.

19	77 D	AILY PREC	IPIT AT ION	(INCBES)		сні	CKASHA, C	KIABCMA	PATERSHE	E 110 NE&F	2 PADAFK	c
Cay	Jan	E€b	Bar	Apr	Bay	Jur	Jnl	Aug	S∈p	Cct	∦cv	D∈c
1	0.0	0.0	0.0	0.0	0.07	C.û	0.16	0.11	0.0	0.6	0.62	0.01
1 2	0.0	0.02	0.04	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.11	0.0
j 3	0.0	0.04	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.9	0.0	0.24	0.0	0.0	0.0	0.0	6.32	0.0	0.06
5	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.93	0.0	0.0	0.0
€	0.01	0 - 0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	0.21	0-0
įξ	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.58	9.0
į ç	0.20	0.0	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.15	0.0
i (10	0.0	0.0	0.31	0.0	0.0	0.0	0-0	0.02	0.0	0.0	0.0	9.0
j 11	0.0	1.31	0.0	0.0	0.0	0.0	0.0	9.0	0.9	0.0	0.0	0.0

0.0 12 0.01 0.09 0.0 0.0 0.9 0.0 I 1 0.0 0.0 0.0 0.0 1 0.0 1 0.0 1 0.0 0.0 0.0 0.0 0.03 0.02 0.0 0.0 0.0 14 0_0 0.24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.26 0.0 0.0 0.09 0.0 0.0 0.0 0.0 I 0.0 2.74 0.02 0.0 0.0 0.0 0.0 0.0 9.0 0.0 0.0 0.0 18 0.0 0.0 0.0 0.0 0.62 0.0 0.0 0.0 20 0.0 0.0 0.0 2.17 0.82 0.0 0.0 0.0 0.0 0.0 0.0 0.0 21 0.0 I 0.0 0.0 0.0 0.01 0.0 0.02 0.0 0.0 0.0 0.0 0.0 0.03 0.02 0.0 0.10 0.0 0.0 0.32 0.16 0.08 0.02 0.01 0.01 0.0 0.0 0.38 0.0 22 0.0 0.0 0.0 1.05 0.0 0.0 0.0 0.0 0.0 0.0 24 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0 0.08 0.0 0.0 0.0 0.0 0.0 0.0 26 27 28 29 0.0 0.14 0.0 0.85 0.40 0.0 1 0.0 0.0 0.0 0.0 0.0 0.0 0.40 1.0E 0.0 0.0 0.59 0.03 0.92 0.09 0.74 0.08 0.0 0.0 0.02 0.02 0.01 0.0 1 0.0 0.0 0.0 0.0 1 0.13 0.0 0.0 0.0 0.0 0.0 0.0 31 0.0 0.15 0.0 0.0 0.0 TCTAI 1.58 3.00 1.25 3.70 0.09 2.93 I STA AV 0. 61 1.80 2.04

Air Temperatures: See table for Watershed W-700, (69.007) of this publication.

Gaging: Thiessen weighted average of 10 rain gages. Station Averages: 17 yr teginning 1961.

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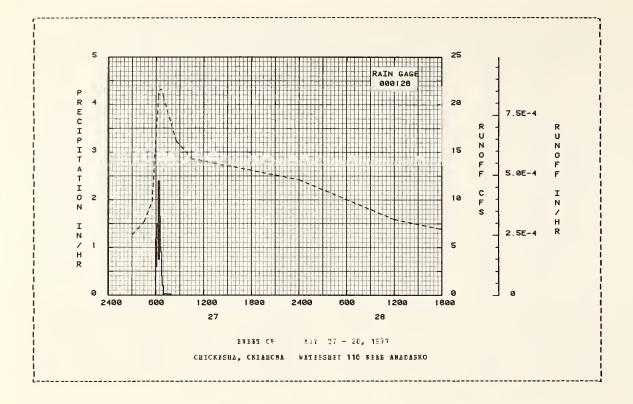
69.014- 1

197	7	BEAN DATI	Y EISCHAS	GE (CFS)		CBI	CKASEA, C	KIFPCG7	PATEESBEI	110 BEAF	ADADAFRO	
Day	Jan	P∈b	bar) AFI	tay	Jur	Jul	λuς	Sep	Cct	Bc∀	Eec
1	0.0		0.990	1.320	1.240	10.010	0.390	0.0	0.0	0.0	0.0	0.0
2	0.0	0.593 1.07J	0.990	1.320	1.900	9.650	0.390	0.0	0.0	0 - 0	0 - 0	0.0
3	0.0	1.07J	6.550	1.240	1.700	7.520	0.390	0.0	0.0	0.0	0.0	0.0
4			0.913	0.990	3.150	7.040	0.290	0.0	0.0	0.0	0.0	0.0
5	0.0	0.990	0.910	6.510	3.150	5.400	J.240	C. 0	0.C	0.0	0.0	0.0
€	0.0	0.910	0.640	0.910	3.530	4.070	0.120	0.0	0.0	0.0	0.0	6.0
7	0.3	0.760	0.640	0.840	3.270	3.150	0.090	0.0	0.0	0.0	0.0	0.0
6	0.0	0.760	C. E40	0.760	3.150	2.550	0.060	C.0	0.0	0.0	0.0	0.0
g	0.0	0.990	0.640	0.690	2.660	2.000	0.020	0.0	0.0	0.0	0.0	0.0
10	0.0	0.990	0.91.	0.630	2.213	1.500	0.0	0.0	0.0	0.0	0.0	L.0
11	0.0	1.150	0.910	0.560	1.70)	1.153	0.0	C.6	0.0	0.0	0.0	0.0
12	0.0	1.41.0	0.640	0.560	1.320	0.990	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	4.210	0.760	0.443	0.990	0.550	0.0	6.0	0.0	0.0	0.0	0.0
14	0.060	4.350	C.760	0.290	0.840	0.640	0.0	C-0	0.0	0.0	0.0	0.0
15	0.090	4.530	0.760	0.440	0.630	0.760	0.0	6.0	0.0	0.0	0.0	0.0
16	0.390	3, 930	6.760	0.390	0.500	0.763	0.0	C.O	0.0	0.0	0.0	0.0
17	0.090	3.020	0.513	C-440	0.440	J.650	0.0	0.0	0.0	0.0	0.0	0.0
1.8	0.050	2.320	6.519	0.500	0.440	J.650	0.5	0.0	0.0	0.0	0.0	0.0
15	0.050	1.790	0.840	0.440	1.275	0.630	0.0	0.0	0.0	0.0	0.0	0.0
20	0.290	1.600	0.640	E. 30 S	5.167	0.560	3.0	0.0	0.0	0.0	0.0	0.0
21	u.690	1.500	0.840	5.126	24.565	0.500	0.0	0.0	0.0	0.0	0.0	6.0
22	C-840	1.500	0.640	11.515	21.040	0.440	0.0	0.0	0.0	0.0	0.0	0.0
23	1.150	1.320	(.690	10.620	17.520	3.440	0.0	0.0	0.0	0.0	0.0	0.0
24	1.500	1.240	6.760	7.210	11.670	0.390	0.0	0.0	0.0	0.0	0.0	0.0
25	1.320	1.240	C.640	4.750	7.920	0.390	0.0	0.0	0.0	0.0	0.0	0.0
2€	1.150	1.07)	0.643	2.900	5.830	0.390	0.0	0.0	0.0	0.0	0.0	0.0
27	1.320	0.590	0.990	2.320	12.666	0.340	0.0	0.0	0.0	0.0	0.0	0.0
28	1.600		1.070	2.100	7.920	0.290	0.0	0.0	0.0	0.0	0.0	0.0
29	1.240		1.150	1.500	5.870	0.440	0.0	0.0	0.0	0.0	0.0	0.0
30	1.150		1.320		15.550	0.250	0.0	0.0	0.G	0.0	0.0	U.0
31	1.070		1.240		11.870		0.0	0.0		0.0		0.0
FAR	0.4461	1.7046	0.9010	2.2353	5.8942	2.1520	0.0642	0.0	0.0	0.0	0.0	0.0
BCBFS		U.045	0.027	0.064	0.174	0.061		0.0	0.0	0.0	0.0	0.0
IA AV	0.020	0.032	0.046	0.060	0.056	0.045	0.015	0.012	0.002	0.001		0.0

Station Averages: 15 yr beginning 1963.
Conversion Factor: CPS to IR/DAY, multiply by .0009513. Inches to AC-FT, multiply by 2,065.

1977	SELECTED BUR	OPP EVENT			C8ICR	ASFA, CKL	ECHA W	ATFREBED 1	10 bfaf ab	ALAEKC
ABTEC	FDEBT CCBDI	TICBS		F A C	IBFALL			FORCE	F	
Cat∈ Bo-Day	Fainfall (irches)	Buncff (inches)	Date Bo-Cay	Ti∎€ of Cay	Intersity (in/br)	Acc. (inches)	Eate Ec-Eay	Time of Cay	Fate (cfs)	Acc. (inches)
			FVF	NI CF	BAT 27 -	26, 1977				
	BG 000128			FG 000	150					
5-27		0.001	5-27		0.0	0 - 0	5-27	300	6.360	0.0
J 2.	***			556	1.2030		5 27	430	7.750	0.0004
				558				530	9.870	0.0008
				€01	1.0000			600	17. 120	0.0010
				604	0.6000	0.14		618	21.190	0.0015
WATEFSHE	D CCBITICES									
	wised survey			607	1.0000	0.19		630	21.600	0.0014
	r - 28%: row				1.5000	0.24		641	21.540	0.0016
6%: alfal	fa - 6%; pas	ture		€19	1.4400	0.36		700	20.450	0.0019
	- 34%; and			6 16	1.5000	C-41		0.23	16.170	0.0029
laneous -	26%.			617	2.4000	C . 45		10 30	14.300	0.0042
				€25	0.7500	0.55		2400	12.060	0.0112
				€26	2.4000	0.59	5-26	1200	7.920	0.0160
				628	1.2000	0.63				
				€32	1.6500	0.74				
				635	1.0000	0.79				
				€39	0.9000	0.65				
				643	0.9000	0.51				
				646	0 - 4000	0.93				
				€\$5	0.2000					
				706	0.0	0.96				
				723	0.0353					
					0.0					
				751	0.0286	0.56				

Conversion Factor: CPS to IB/BF, multiply by 0.000039628.



69.014- 3

CHICKASBA, CKIARCBA WATERSEED 522 NEAF BINGEKAB

LOCATION: Little Washita Fiver Watershed above U.S. bighway 81 bridge Scuth of Chickasha in Grady and Caddo Counties, Ckla.; tributary to Washita Fiver; Fed Fiver Fasiu. GAGING S1A7ICN--SE1/4 sec. 32, 1. 6 5., F. 7 W., Lat. 34 deg. 57 min. B., Long. 57 deg. 57 mir. W., 5-1/2 miles Scuth of Chickasha, Ckla., at U.S. bighway 61 bridge.

207.60 sg. miles 132990.00 acres ARFA:

80	BIBL	PSECIP	ITATICE	ARE BURCE	EF (INCFE	٤)		CEICKASE	A, CRIARC	9 A 9 A	IERSBEC	522 BFA	F WIPEI	KAE	
		Jan	₽€b	Bar	FLI	Bay	Jun	Jul	lug	Ser	Oct	BC W	Ç∈c		Aunual
1977	P Q	9.71 0.058	1.82 0.118	1.34	2.61 0.132	10.21 0.906	1.64	3.61 0.061	3.15 0.099	1.60	1.38	1.12 0.065	0.1		29.70 2.014
VA AF	P Q	1.04 0.168	1.17 0.109	2.03 0.173	2.89 3.188	4.56 0.340	3.00 0.257	2.98 0.221	2.44	4.21 0.124	2.68 0.131	1.73 0.122	0.6		29.62 1.955
	3 91 33 6								crr diant			28782	*****		
	Ans	 Baxi		HARGE (in			aximum	Vclume for	cr Select	ed li∎e	Interva	1			
	400		======= arg∈	1 Bour	2		aximum 6 Bo	Vclume fe	-	€d Ti∎€		1	7 S	8	Cays Vol.
1977		Baxi Disch	arge Hate	1 Bour Date Vol	2 l. Date	Hours Vol.	aximum 6 9c Date	Vclume fe urs Vcl. Da	cr Select 12 Bours	Ed Time 1 Cate	Interva Day Vcl.	1 2 [a [ate	ys Vcl.	8 Date	vol.
1977	400	Baxi Disch Date	arge Hate	1 Bour Date Vol	2 l. Date	Hours Vol.	aximum 6 Hc Date	Vclume fe urs Vcl. Da	cr Select 12 Bcurs ate Vol.	Ed Time 1 Cate	Interva Day Vcl.	1 2 [a [ate	ys Vcl.	8 Date	vol.

Natershed Conditions: Prom a revised 1974 survey; sowed crop - 15%; row crop - 2%; alfalfa - 1%; pasture and range - 66%; and miscellaneous - 16%.

Naps: Topographic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, DSTA fisc. Pub. 1164, page 69.15-4. Composite - 8ydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA fisc. Pub. 1216, page 69.7-21.

Frecipitation: Tecords began Cot. 1961. Thiesseu weighted average of 36 gages.

Runoff: Records tegan Agril 1963.

Long-Term Precipitation: Wational Weather Service records at Chickasha, Ckla.

1977	2 .	AILY PREC	IFITATION	(INCHES)		CHIC	KASHA, CI	KIABCBA	WATERSHEE	522 BEAR	BIEREKA	B
Eay	Jan	P∈b	Bar	Apr	Bay	Jur	Jul	Aug	Sep	Cct	BCV	£€¢
1	0.0	0.0	0.0	0.10	0.42	0.0	1.39	0.10	0.0	0.0	0.04	0.03
2	0.0	0.02	0.49	0.0	0.51	G.0	0.0	0.0	0.0	0.0	0.06	0.0
Ξ	0.0	0.05	0.0	0.6	0.12	0.0	0.0	0.0	0.0	0.0	0.02	0.0
4	0.0	0.0	0.0	0-0	0.05	0.0	0.0	0.0	0.0	0.24	0.0	0.01
Ē	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0 T	0.66	0.0	0.0	0.0
€	0.05	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.03	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.21	0.0
8	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0
ç	0.17	0.0	0.0	0.0	0.0	0.0	0.0 1	0.0	0.0	0.0	0.15	0.0
10	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0
11	0.0	1.52	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
12	V. 19	0.01	0.0	9.0	0.0	0.25	0.0	9.0	0.76	0.0	0.0	0.03
13	0.04	0.0	0.0	0.04	0.28	0.0	0.0	0.03	0.24	0.0	0.0	0.0
14	0.0	0.0	0.0	0.19	0.41	0.0	0.0	0.03	G.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.36	0.03	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0 9	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.02	3.13	0.0	0.0	0.67	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	1.60	1.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0 1	0.02	0.0	0.25	0.0	0.0	0.01	0.0	0.0
22	0.04	0.05	0.0	0.09	0.0	0.34	0.01	0.0	C.0	0.90	0.0	0.0
23	0.02	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0 1	0.10	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.15	0.0	1.16	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.14	0.32	0.0	0.86	0.26	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.03	0.41	0.0	0-91	0.6	0.22	0.24	0.0	0.0 I	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.41	0.58	0.24	0.02	0.02	0.06	0.0
29	0.0		0.0	0.26	0.0	0.0 I	0.14	0.65	0.03	0.0	0.0	0.04
30	0.0		0.0	0.0 I	3. 95	0.0	0.0	0.0	0.0	0.0 1	0.0	0.0
31	0.0		0.0		0.93		1.02	0.0		0.0		0.0
CTAI	0.71	1.82	1. 34	2.81	10.21	1.64	3.61	3.15	1.80	1.38	1.12	0.11
TA AV	1.04	1.17	2.03	2.89	4.58	3.00	2.58	2.44	4.21	2.68	1.73	0.86

Air Temperatures: See table for Watershed W-700, [65.907] of this publication. Gaging: Thiesser weighted average of 36 rain gages. Station Averages: 17 yr beginning 1961.

Cooperative Fesearch Project of OSDA and Cklaboma Agricultural Experiment Station

1977	e	EN DAIL	LISCHAR	GE (CPS)		CEI	CKASEA, O	KIAECMA	WATERSHEI	522 NEAF	EINERAH	
Day	Jan	F∈b	Bar	ÀFΙ	∄ay	Jun	Jul	Aug	Sep	0ct	Nev	D∈C
1	13.0	22.3	17.9	21.0	25.0	355.2	121.3	115.8	13.5	3.6	8.5	13.5
2	13.0	21.6	39.1	23.0	91.6	217.1	50.C	14.5	1v. 1	3.8	6.9	13.0
3	14.5	21.0	42.5	20.4	35.9	72.8	24.3	12.5	8.9	4.0	9.3	14.8
4	21.6	19.7	25.4	17.5	27.9	42.9	20.4	10.1	8.1	5.5	5.7	13.5
5	19.1	19.1	24.3	16.2	25.7	40.2	16.7	6.9	10.6	10.6	10.1	13.5
6	21.6	18.5	21.0	16.2	34.2	31.8	13.5	€.1	13.5	6.1	9.7	14.0
7	19.1	16.5	19.1	14.5	24.3	33.4	12.0	7.7	12.0	6.5	10.6	14.0
6	18.5	19.7	16.5	14.0	20.4	31.6	11.1	€.2	10.1	6.6	14.5	17.3
č	16.7	21. €	17.9	14.0	17.5	29.4	11.5	5.2	9.7	€.2	17.9	10.6
10	15.1	19.7	16.5	14-0	16.2	26.4	10.1	4.6	6.9	5.9	14.5	12.0
11	12.5	53.0	20.4	13.5	16.7	24.3	10.6	4.3	8.5	4.9	14.0	21.0
12	12.5	66.6	19.1	13.5	15.6	25.0	€.5	4.3	8.5	4.6	13.0	15.1
13	12.5	35.0	16.5	14.0	15.6	21.0	6.9	5.2	32.7	4.9	12.9	17.3
14	12.5	30.2	17.9	15.6	22.3	20.4	5.9	5.2	17.3	5.2	11. 1	14.5
15	12.5	23.0	17.3	25.7	34.6	20.4	£.¢	5.2	13.5	6.1	10.6	14.0
16	15.1	22.3	17.9	24.3	17.3	19.7	5.9	4.9	11.1	5.9	10.6	14.5
17	35.5	21.0	17.9	22.3	16.7	17.9	5.5	4.3	6.5	€.2	10.1	13.5
16	15.1	20.4	17.3	19.7	15.1	17.3	E.5	4.3	7.7	6.2	10.1	13.5
19	16 - 2	19. 7	46.2	17.3	563.1	15.6	5.5	6.6	6.5	£.9	13.5	13.5
20	16.7	19.1	15.6	27.5	1163.0	14.5	5.5	11.1	6.2	5.9	13.5	12.5
21	25.7	19.1	16.2	145.6	463.2	12.0	€.4	9.3	5.9	6.2	13.0	12.5
22	21.6	19. 1	15.6	35.0	114.6	10.5	10.5	6.1	4.6	€.9	12.5	12.5
23	20.4	19.1	16.2	27.9	56.9	12.5	5.9	7.7	4.3	12.5	14.0	14.0
24	21.0	17. 9	16.2	23.0	47.7	13.5	5.2	60.1	4.6	13.0	13.0	15.1
25	19 - 1	16.7	17.9	19.1	43.9	14-0	4.3	56.1	4.6	10.6	13.0	13.5
26	18.5	18.5	22.3	17.3	40.7	14.5	4.3	13.5	4.6	5.7	13.5	13.0
27	18.5	19.7	35.9	17.3	468.2	14.5	5.9	9.7	4.0	6.5	13.5	14.5
28	18.5	17.9	31.8	17.9	175.1	12.0	6.5	17.4	4.0	€.5	13.0	14.5
29	15.6		25.7	23.C	67.2	15.6	20.1	61.5	4.6	6.5	13.5	14.5
30	15.6		21.0	43.9	47.7	16.2	13.5	40.9	4.3	6.5	13.0	15.1
31	17.3		21.0		1339.4		9.3	19.1		6.5		15.1
PAR	17.60	23.64	22.26	24.45	163.35	41.68	14.54	17.82	9.06	7.12	12.14	14.16
NCHES	0.098	0.118	0.124	0.132	0.906	0.225	0.061	0.099	0.049	0.039	0.065	0.079
VA AT	0.108	0.109	0.173	0.188	0.340	0.257	0.221	0.084	0.124	0.131	0.122	0.098

Station Averages: 15 yr beginning 1963. Conversion Factor: CPS to IN/CAY, multiply by 0.0001790. Inches to AC-F1, multiply by 11,083.

CHICKASHA, CKIAHCHA WATERSFEE 512 AT TABLEE

ICCATION: East Bitter Creek Watershed above U.S. Highway 62 bridge at Tabler, in Grady County, Ckla.; tributary to Washita Siver; Fed Fiver Basin. GAGING STATION-SW1/4 sec. 27, 1. 7 K., E. 6 W., lat. 35 deg. 05 mir. B., long 97 deg. 50 min. W., at Tabler, Ckla., at U.S. bighway 62 bridge.

22530.01 acres 35.20 sg. miles

» (NIBLE	PEEC1P	ITATION	AND EURO	FF IKCEE	٤)		CEICFASE.	A, CKIABC	ea war	EBSEEL	512 21	TAFLEE		
		Jan	P∈b	ēa r	Agr	Bay	Jun	Jul	Nug	5e ₽	Cct	KC ₩	E∈c		rrual
1977	P Q	7.44 0.967	1.53 0.379	1.29	2.80 0.115	9.2€ 1.37€	2.21	1.41 0.033	1.61	0.54	1.39 0.316	1.04			1.715
VA AI	P Q	n.95 0.139	1.26 0.145	1.55 0.262	2.50 0.329	4.31 0.579	3.25 0.446	2.42 3.138	2.95 0.161	3.86 0.166	2.64 0.192	1.65 0.19			25.28 2.901
	ANNO	Baxi					axisus	Vclume f	CFF inch cr Select	ed Time	Interva	1			
	ANNU		rum arge		2		aximum 6 Bo	Volume f		ed Time	Interva	1 2 C		8 1	tays Vcl.
1977	ANNU	Baxi Disch	rum arge Pate	1 Hour Date Vo	1. Date	Hours Vol.	aximum 6 Bo Cate	Volume for vol. D	cr Select 12 Hours	ed Time 1 tate	Interva Day Vcl.	1 2 Cate	ays Vcl.	8 (Cate	Vc1.
1977	ANNU	Baxi Disch Date	rum arge Pate	1 Hour Date Vo	1. Date	Bours Vol.	aximum 6 Bc tate 5-20	Volume for vol. D	cr Select 12 Hours ate Vol.	ed Time 1 tate	Interva Day Vcl.	1 2 Cate	ays Vcl.	8 (Cate	Vc1.

1977	CA	ILY PRECI	EITATICE	(IRCHES)		CBIC	KASFA, C	KIBECEA	WATERSHEC	512 AT T	AELER	
Day	Jan	Peb	Bar	yŁı	flay	Jur	Jt1	Aug	Sep	Cct	§ C ♥	t∈c
1 2 1 2 1 4 5	0.0 0.0 0.0 0.0	0.0 0.01 0.04 0.0	0.0 0.16 0.0 0.0	0.01 0.0 3.0 3.0	0.18 0.31 0.73 0.03 0.46	0.0 0.0 0.0 0.0	0.65 0.0 0.0 0.0	0.06 0.0 0.0 0.0	0.0 0.0 0.0 0.03 0.14	0-0 0-0 0-0 0-50 0-01	0.02 0.04 0.03 0.0	0.01 0.0 0.0 0.05 0.05
6 7 8 9	0.05 0.0 0.05 0.17 0.0	0.0 0.0 0.0 0.0	0.3 0.0 0.0 0.0 0.2	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 T 0.72 0.16 0.0	0.0 0.0 0.0 0.0
1 11 1 12 1 13 1 14 1 15	0.0 0.08 0.05 0.0	1-29 0-01 0-3 0-3	0.0 0.0 0.0 0.0	0.0 0.0 0.06 0.0	0.0 0.0 0.47 0.05 0.33	0.0 0.04 0.0 0.0	0.0 0.0 0.0 0.0 0.1	0.0 0.0 0.02 0.0	0.0 0.20 0.53 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.01 0.0 0.0 0.0	0.19 0.01 0.03 0.0 1.87	0.16 0.01 0.0 2.86 1.95	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.56	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 1 23 1 24 1 25	0.0 0.01 0.03 0.0	0.7 0.04 0.0 0.0	0.0 0.0 0.0 0.0 T 0.0	0.0 20.0 0.0 0.0 0.0	0.03 0.0 0.0 0.0	0.0 0.26 0.02 0.15 0.67	0.09 0.0 0.02 0.0	0.0 0.0 0.0 0.19	0.0 0.0 0.0 T 0.0	0.0 0.51 0.22 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
2 E 1 27 1 28 1 29 1 30 1 31	0.0 0.0 0.0 0.0 0.0	0.13 0.01 0.0	0.34 0.51 0.0 T 0.0 0.0	0.0 0.0 0.0 0.21	0.78 0.45 0.0 0.0 0.01 0.42	0.23 0.0 0.84 0.0 T	0.11 0.25 0.01 0.09 0.0	0.0 0.01 0.0 1 0.77 0.0	0.0 0.0 0.0 T 0.02	0.0 0.0 0.0 T 0.0 0.05	0.0 0.0 0.07 0.0	0.0 0.0 0.0 0.0 € 0.0
TCTA1	0.44	1.53 1.26	1.29 1.96	2.80 2.90	5.26 4.21	2.21 3.25	1-41 2-42	1.61 2.96	0.94 3.88	1.39 2.64	1.04 1.65	0.12 0.99

Air Temperatures: See table for Watershed W-700, (E9.007) of this publication.
Gaging: Thicssen weighted amerage of 10 gages for 1961-66, 31 gages for 1967-74, and 27 gages for 1975 onward.
Station Amerages: 17 yr beginning 1961.

Cooperative Research Project of OSDA and Cklaboma Agricultural Emperiment Station

Vatershed Conditions: Prom a revised 1974 survey; sowed crop - 7%; alfalfa - 2%; pasture and range - 65%;
miscellaneons - 8%.

Mape: Topographic/Composite - Hydrologic Data fur Experimental Agricultural Watersheds in the United States, 1965,
USEA Misc. Fub. 1216, pages 55.16-8 and 65.7-21.

Precipitation: Fecords began Oct. 1961. Thiessen weighted average of 10 gaçes for 1961-66, 31 gages for 1967-74, and
27 gages for 1975 onward.
Funoff: Fecords began Aug. 1963.

Long-Term Precipitation: National Weather Service records at Chickesha, Okla.

1977 BEAN DAILY ELECHARGE (CES)						CHICKASEA, CKLAHCMA WATERSHED 512 AT TABLER						
Гау	Jan	P∈b	Mar	Apr	Bay	Jur	Ju1	Aug	Sep	Cct	₩C V	ľ€c
1	1.79	2.41	2.22	2.41	2.41	7.10	5.59	0.48	0.42	0.17	0.92	1.41
2	1.79	2.61	2.22	2.41	3.51	5.84	3.69	0.48	0.33	0.12	0.52	3.41
3	1.95	2.51	2.71	2.31	3.30	5.18	2.04	0.45	0.30	0.12	1.03	1.41
4	2.61	2.51	2.51	2.13	22.77	4.58	1.56	0.36	0.28	0.30	0.52	1.41
5	1.95	2.41	2.61	1.95	4.26	4.29	1.28	0.30	0.33	0.68	0.98	1.48
€	1.79	2.41	2.41	1.95	11.02	3.89	1.15	0.28	0.42	0.60	1.03	1.41
7	1.79	2.41	2.51	2.04	2.€2	3.63	1.09	0.25	0.42	0.56	1.03	1.41
8	1.75	2.31	2.41	1.95	2.41	3.51	0.92	0.25	0.42	0.56	1.87	1.48
ç	1.79	2.31	2.41	1.87	2.22	3.27	0.98	0.23	0.39	0.45	2.22	1.05
10	1.75	2.31	2.51	1.79	2.04	3.04	0.98	0.23	0.33	0.42	1.56	1.28
11	1.79	4.47	3.15	1.79	1.95	4.43	0.82	0.21	0.28	0.36	1.41	1.41
12	1.75	6.32	2.71	1.67	1.79	4.43	0.68	0.21	0.25	0.33	1.34	1.56
13	1.79	3.38	2.41	2.13	3.37	4.29	0.60	0.28	2.60	0.36	1.34	1.71
14	1.41	2.82	2.41	2.41	2.52	4.02	0.52	0.25	1.31	0.39	1.28	1.6∃
15	1.41	2.51	2.41	2.71	2.22	3.76	0.48	0.19	0.60	0.36	1.34	1.56
16	1.41	2.61	2.31	2.71	4.43	3.76	0.56	0.15	0.60	0.33	1.41	1.56
17	1.41	2.61	2.31	2.€1	2.41	3.76	0.52	0.12	0.52	0.39	1.34	1.5€
18	1.41	2.41	2.41	2.51	1.95	2.13	0.42	0.12	0.48	0.45	1.21	1.48
15	2.61	2.51	2.41	2.13	225.41	1.71	0.39	0.36	0.45	0.39	1.28	1.91
20	2.61	2.31	2.22	15.89	345.53	1.63	0.33	0.68	0.45	0.39	1.28	1.41
21	2.82	2.31	2.22	27.78	187.29	1.71	0.39	0.64	0.42	0.39	1.15	1.41
22	2.71	2.41	2.22	4.15	44.24	1.41	0.48	0.60	0.36	0-42	1.09	1.41
2 Ξ	2.62	2.51	2.32	3.38	21.30	1.71	0.52	0.52	0.30	1.15	1.21	1.41
24	2.82	2.31	2.31	2.53	13.54	1.79	0.45	C.45	0.25	0.77	1.28	1.4€
25	2.61	2.41	2.41	2.51	9.64	5.64	0.42	0.45	0.21	0.64	1.28	1.48
2 €	2.51	2.41	2.82	2.31	7.65	3.38	0.48	0.33	0.19	0.64	1.21	1.48
27	2.51	2.41	4.58	2.31	44.56	2.13	0.85	0.19	0.23	1.50	1.28	1.48
28	1.95	2.41	4.02	2.04	13.57	1.66	1.03	0.15	0.25	0.52	1.28	1.5€
29	1.95		2.92	2.31	€.74	17.01	0.87	1.21	0.25	0.67	1.34	1.63
30	1.95		2.51	2.51	7. 10	2.31	0.64	1.03	0.23	0.87	1.34	1.71
31	2.13		2.41		5.45		0.56	0.52		0.52		1.71
MEAR	2.047	2.680	2.578	3.660	32.510	3.907	1.316	0.386	0.462	0.543	1.272	1.479
INCHES	0.067	0.079	0.084	0.11€	1.078	0.124	0.033	0.013	0.015	0.018	0.040	0.04€
STA AV	0.139	0.145	0.262	0.329	0.579	0.446	0.138	0.161	0.166	0.192	0.194	0.129

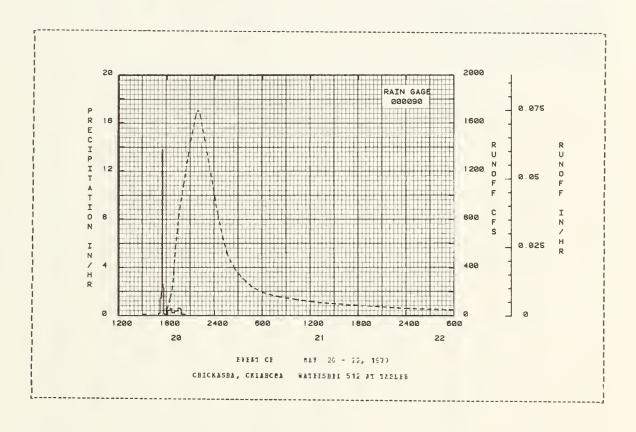
Ctation Averages: 15 yr beginning 1963. Conversion Eactor: CFS to IN/DAY, multiply by 0.001056. Irobes to AC-ET, multiply by 1,878.

77 SELECTED BONG				CHICKASHA, CRIABCHA WATTESHED 512 AT TARLEE FAINFALL FONCE								
ABTECEPENT CONDIT		Date			Acc	Tate.			Acc.			
Mo-Day (irches)	(inch∈s)	Mo-Day	of Lay	(in/hr)	(inches)	#c-Day	of Day	(cfs)	(inches)			
			97 OF		22, 1977							
EG 000090			BG U000	99								
5-20 0.0	0.076	5-20	1500	0.0	0.0	5-20	1800	51.290	0.0			
			1524	0.1250	0.05		1811	£4.270	0.0005			
			1549	0.0	0.05		1823	130.560	0.0015			
			1619	0.0200	0.06		1836	162.750	0.0030			
			1659	0.0300			1841	217.210	0.0037			
WATERSHED CONDITIONS:												
rom a revised 1974 st			1711	0.2000	0.12		1848	279.979	C.0050			
			1720	1.4667	0.34		1653	364.436	0.0062			
owed crop - /%; alia: %; pastmre and range	- 83%:		1725	1. 9200	0.50		1900	463.360	0.0083			
nd miscellaneous - 89	1.		1726	13.6034	0.75		1906	562.530	0.0106			
			1732	2.6000	0.55		1918	651.060	0.0161			
			1.52	2	****		.,,,,,					
			1738	2.3000	1.22		1930	£17.550	0.0227			
			1746	0.1500	1.24		1991	516.820	0.0297			
			1608	0.0818	1.27		2006	1086.540	0.0461			
			1828	0.4500	1.42		2041	1332.260	0.0792			
			1636	0.6000	1.52		2111	1514.778	0.1105			
			1656	0.000	1. 52		2111	1314.776				
			1900	0.2455	1.61		2141	1684.127	0.1457			
			1925	0.4060	1.78		2148	1700.558	0.1544			
			1540	0-6400	1.94		2200	1700.556	0.1654			
			1950	0.5400	2.03		2211	1662.356	0.1829			
			2019	0.1241	2.05		2241	1475.157	0.2175			
			2015	9.1271	2.00		~~ ;					
			2104	0.0	2.05		2311	1299-310	0.2481			
			2140	0.0167	2.10		2336	1150.580	0.2706			
			2247	0.0	2.10		2900	969.678	0.2654			
			2317	0.0200	2.11	5-21	30	£09.95£	0.3091			
			2346	0.0414	2.13	5 4 1	100	€57.3€€	0.3253			
			2540	0.0414	4.13		.00	03,4300	4.5255			
		5-21	12	0.0231	2.14		141	496.000	0.3426			
		3 21	12	0.0231	4.17		241	373.658	0.3617			
							341	301.819	0.3766			
							941	239.360	0.3885			
							600	194.850	0.4011			

Conversion Eactor: CPS to IN/HE, multiply by 0.00004402.

1977 SELECTED BORDER EVENT						CHICKASHA, CRIANCEA WATERSHED 512 AT TARLER								
ABTECEPHE COMDITIONS					FAI	[BFALL			FUNCI					
	it∈ -Day	Bainfall (irches)	Funcff (inches)	Dat∈ Bo-Day	lir∈ of Cay	Intensity (in/hr)	Acc. inches)	Date #c-Day	Time of Day	Fat∈ (cfs)	Acc. (inches)			
				EVENT CF	HAT	20 - 22,	1977 (CC)	STINGED)						
								5-21	800	157.290	0.4166			
									1030	131.760	0.4325			
									1230	113.340	0.4433			
									1700	50.600	0.4635			
									1918	82.470	6.4723			
									2400	61.900	0.4872			
								5-22	600	50.630	0.5021			
									1200	42.490	0.5144			
									1900	39.040	0.5269			
									2100	31.6E0	6.5300			
									2400	27-450	0.5335			

Conversion Factor: CES to IN/HF, multiply by 0.00004402.



69.016- 3

CHICKASHA, CRIAHCMA WATERSEED 621 REAF TABLER

LCCATION: Winter Creek Watershed above county farm to market road bridge North of Alex in Grady County, Ckla., tributary to Washita Fiver; Fed Fiver Besin. GAGING STATICh--NF 1/4 sec. 19, T. 6 N., F. 5 W., lat. 25 deg. 00 mir., long. 97 deg. 46 min., 5 miles North and 1 mile East of Alex, Okla., atout 1,000 feet downstream from County section line farm to market road bridge over Winter Creek.

21319.00 acres 33.30 sg. miles

8.0	KTHL	PFF(IF	ITATICN	ANE FUNO	F (INCER	2)	CHICKASHA, CKLAHCHA WATERSHED 621 NEAF TAELEF							
		Jan	₽€b	far	Apr	ža y	Jun	Ju l	lug	S∈p	0ct	£ c ∧	£∈c	Arrual
1977	P Q	0.55	1.35 0.103	1.96 0.125	2.79 0.138	€.0€ 0.979	2.91 0.182	1.39 0.067	1.41 0.021	0.95 0.026	1.26 0.035	1.13 0.050	0.14 0.049	23.92 1.861
STA AV	P Q	1.03 0.161	1.23 0.181	1.79 0.233	2.92 0.283	4.50 0.71€	3.03 0.357	2.41 0.170	2.62 0.121	4.02 0.250	2.62 0.236	1.67 0.280	1.06 0.169	29.08 3.195
	ANNI	DAL EAXI	MUM DISC	HAFGE (i	/hr) AND	MAXIMUM	VOLUME	E OF FU	NCFE (incl	hes) ECR	SELECTE	C TIEE I	NIFFVALS	
		Maxi Disch Date	arge	1 Hour Late Vol		Honis Vol.	€ £c	urs	for Select 12 Ecurs Cate Vol.	1	Interva Day Vol.	1 2 Day Date V		Eays
1977		5-20	0.328	5-20 0.0	27 5-20	0.051	5-20	0.125	5-20 0.10	63 5-20	0.263	5-19 0	.414 5-	19 0.926
						MARIBURS	ECF FE	FIOE CF	FECCEC					
		5-10 1964	3.207	5-24 0.1 1973	188 5-22 1975		5-22 1975		5-22 0. 6 1975	70 5-22 1975	1.059	5-22 1 1975	1.412 5-1 19	22 2.200 75

Watershed Conditions: Prom a revised 1974 survey; sowed crcp - S%; rcv crop - 1%; alfalfa - 1%; pasture and range - 62% and miscellaneous - 7%.
Maps: Topographic/Composite - Hydrologic Lata for Experimental Agricultural Watersheds in the United States, 1965, USLA Misc. Fub. 1216, pages 63.17-8 and 69.7-21.
Frecipitation: Records hegan Oct. 1961. Thiessen weighted average of 9 gages.
Runoff: Records began Cct. 1963.
Long-Term Frecipitation: National Weather Service records at Chickasha, Okla.

1977	1977 DAILY PRECIFITATION (INCHES)							CBICKASEA, OKIAECHA WATERSHFC 621 NEAF T				
Day	Jan	P∈b	Mar	ytı	May	Jnr	Jt l	Aug	Seç	Cct	Σcv	<u>L</u> ec
1 2 3 1 4	0.0 0.0 0.0 0.0	0.0 0.11 0.03 0.0 0.0	0.0 0.39 0.0 0.0	0.30 9.9 0.0 0.0	0.08 0.24 0.53 0.04 0.41	0.0 0.0 0.0 0.0	0.16 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.02 0.11	0.0 0.0 0.0 0.49	0.02 0.04 0.06 0.0	0.01 C.0 0.0 0.04 0.04
	0.08 0.0 0.15 0.15	0.0 0.7 0.0 0.3 0.7	0.0 0.0 0.0 0.0 0.43	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 9.0 0.01	0.0 0.0 0.0 0.0	0.0 0.0 0.75 0.11 0.0	0.0 0.0 0.0 0.0
 11 12 11 14	0.0 0.06 0.06 0.0	1.16 0.31 0.3 9.3 0.9	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.14 0.08 0.25	0.0 0.04 0.0 0.0	0.0 0.0 0.0 0.0 0.1	0.0 0.0 0.03 0.0	0.0 0.14 0.64 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.19 0.91 0.91 0.9	0.11 0.0 0.0 2.79 1.55	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.49 0.0	0.0 T 0.0 0.0 0.0	0.0 0.0 0.0 9.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
1 21 1 22 1 23 1 24 1 25	0.0 0.01 0.03 0.0	0.0 0.03 0.0 0.0	0.0 0.0 0.0 0.0	0.01 0.03 0.0 0.0	0.03 0.0 0.0 0.0	0.0 0.15 0.01 0.35 1.01	0.62 0.0 0.0 = 0.0	0.0 0.0 0.0 0.34	0.0 0.0 0.0 0.0	0.0 0.50 0.23 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
1 26 1 27 1 28 1 29 1 30	0.0 0.0 0.0 0.0 0.0	0.11 0.0 T 0.0	0.43 0.51 0.7 T 0.0 0.0	0.0 0.0 0.0 0.2 0.21	0.90 0.51 0.0 0.0 0.0 0.42	0.45 0.0 0.89 0.01	0.17 0.26 0.0 T 0.12 0.0 0.02	0.0 0.0 0.0 T 0.51	0.0 0.0 0.0 F 0.0 0.0	0.0 0.0 0.01 9.0 0.03	0.0 0.0 0.15 0.0	0.0 0.0 0.09 0.0
I TCTAI STA AV	0.55 1.03	1.35 1.20	1.96 1.79	2.79 2.92	€.0€ 4.50	2.51 2.03	1.39 2.41	1.41 2.62	0.95 4.02	1.26 2.62	1.13 1.67	0.14 1.0€

Air Temperatures: See table for Watershed W-700, (69.007) of this publication. Gaging: Thiessen weighted average of 9 rain gages.
Station Averages: 17 yr beginning 1961.

Cooperative Fesearch Project of USDA and Cklahoma Agricultural Experiment Station

197	7	MEAN DAIL	Y EISCHAEG	E (CFS)		CHIC	KASEA, CK	LAFCEA	*ATEBSBEI	621 NEA	TALLEE	
Day	Jan	P€b	Mar	yeı	May	Jun	Jul	Aug	S€ŗ	Cct	šcv	D€C
1	2.96	2.98	2.3€	2.36	3.24	13.55	5.36	0.77	0.96	0.38	1.33	1.58
2	1.98	2.98	13.11	5.60	3.65	5.87	5.87	0.56	0.69	0.38	1.33	1.58
3	2.0€	2.98	10.67	2.86	3.51	7.50	3.36	0.51	0.83	0.42	1.41	1.58
4	2.50	2.98	5.42	2.50	13.65	6.34	2.50	0.36	0.77	0.51	1.50	1.50
Ē	2.73	2.86	4.4C	2.38	6.84	5.21	2.3€	0.38	0.83	0.89	1.50	1.50
6	2.50	2.73	3.65	1.96	6.10	4.59	2.27	0.56	0.48	0.56	1.67	1.33
7	2.8€	2.73	3.51	1.77	4.59	3.65	2.17	U.68	0.46	1.03	1.58	1.33
6	2.17	2.73	3.11	1.77	3.65	3.38	2.06	0.46	0.48	1.03	2.17	1.50
ç	1.58	2.73	2.86	1.77	3.24	2.56	1.98	0.34	U.58	0.56	2.17	1.17
10	1.68	2.73	3.38	1.67	2.73	2.73	1.8€	0.38	0.71	0.96	1.58	1.33
11	1.86	5.76	5.42	1.77	2.50	2.61	1.67	0.34	0.66	0.83	1.41	1.41
12	1.87	7.30	4.03	1.87	2.27	2.61	1.50	0.46	0.58	0.77	1.41	1.41
13	1.56	5.00	3.65	1.67	2.17	2.61	1.41	0.51	4.23	0.83	1.33	1.50
14	1.96	4.40	3.11	1.56	2.17	2.50	1.25	0.46	1.77	0.77	1.33	1.41
15	2.17	3.65	2.98	2.06	2.27	1.96	1.25	0.51	1.25	0.83	1.33	1.41
16	2.17	3.51	2.73	2.17	2.86	1.77	1.10	0.36	1.10	6.65	1.33	1.41
17	2.17	3.38	2.73	2.50	2.38	1.87	0.56	0.30	0.09	0.89	1.33	1.41
18	2.17	3.38	2.61	2.73	2.06	1.33	0.77	0.30	0.63	0.89	1.33	1.41
15	3.11	3.24	2.38	2.73	67.28	1.50	0.71	0.61	0.77	0.63	1.41	1.41
20	3.11	2.88	2.27	9.66	184.66	1.58	0.71	0.56	0.61	0.83	1.50	1.41
21	3.24	2.36	2.17	25.27	151.68	1.50	2.90	0.58	0.24	1.10	1.41	1.33
22	3.11	2.73	2.17	10.32	£1.14	1.41	1.98	0.51	0.21	1.17	1.41	1.33
2.3	3.11	2.73	2.17	7.62	65.11	1, 67	1.58	0.51	0.21	2.17	1.41	1.41
24	3.11	2.73	1.77	5.64	47.36	2.0€	1.41	0.51	0.24	1.67	1.41	1.41
25	2.58	2.61	1.77	4.59	38.23	10.85	1.25	0.89	0.18	1.50	1.41	1.41
28	2.88	2.98	1.96	3.85	25.61	18.24	1.17	0.77	0.42	1.50	1.41	1.41
27	2.68	2.73	4.79	3.51	55.15	E.10	1.10	0.71	0.46	1.33	1.41	1.41
28	2.50	2.38	3.85	3.11	26.90	6.44	1.03	0.51	0.48	1.33	1.58	1.41
29	2.27	2.00	2.86	3.24	15.75	23.16	0.56	1.33	0.81	1.33	1.67	1.50
30	2.27		2.17	3.65	14.76	11.34	0.89	1.67	0.46	1.33	1.58	1.50
31	2.27		1.96	3,03	26.18		0.83	1.17	••••	1.33		1.50
EEAR	2.438	3,309	3.814	4.133	26.262	5.435	1,943	0.802	C.770	1.021	1.488	1.426
INCHES	0.084	0.103	0.125	0.138	0.575	0.182	0.367	0.021	0.928	0.035	0.656	0.045
												0.169
SIA AV	0.181	0.181	0.233	0.283	0.718	0.357	0.170	0.021	0.250	0.236	0.260	

Station Averages: 15 yr beginning 1963. Conversion Factor: CPS to IN/DAY, pultiply by 0.001117. INCHES to AC-FT, multiply by 1,776.

CHICKASBA, CKLABCEA WATERSEED 513 REAR TABLER

LCCATION: Bedingfield Watershed is the West branch of East Eitter Creek 1.4 miles above East Eitter Creek gaging station, in Grady County, Okla.; tributary to East Eitter Creek; Washita Biver; Eed Biver Easin. GAGING STATION--SE1/4 sec. 22, T. 7 N., R. 6 N., lat. 35 deg. 03 min. 53 sec. N., long. 97 deg. 49 min. 13 sec. W.

12314.00 acres 19.24 sg. miles

ec.	NTHI	PFECIF	ITATION	ANE SON	OEE (INC	EES)		CHICKAS	HA, CKLAH	CHA WA	1ERSBEC	513 NEAR	TABLER	
		Jan	P∈b	Ear	Apr	tay	Jun	Ju1	Aug	£∈ŗ	Oct	Kc∀	[ec	Arrual
1977	P Ç	0.46 0.068	1.55 0.083	1.25 0.092	2.98 0.134	8.81 1.155	2.37 0.107	1.49 0.032	1.49 0.00€	0.84 0.006	1.40 0.011	1.03 0.037	0.12 0.049	23.74 1.770
STA AV	P Ç	0.94	1.27 0.154	2.13 0.309	3.05 0.399	4_39 0.619	3.00 0.531	2.61 0.167	3.05 0.180	3.68 0.214	2.95 0.221	1.34 0.175	1.00 0.134	29.62 3.255
	ANN	JAL MAXI	mum DIS	CHARGE (in/br) A	NE BAXIBU	VOI UNI	E O E F O	NCEE (inc	hes) ECR	SELECIE	t lise i	KIERVALE	
		Maxi £isch Dat∈	arge	1 Hou Cat∈ V		2 Hcurs t∈ Vcl.		curs	for Selec 12 Eours Cate Vol	1	Interva Day Vol.	l 2 Cay £at∈ V		fays
1977		5-2 C	0.123	5-20 0	.115 5-	20 0.214	5-20	0.439	5-20 0.5	24 5-20	0.570	5-19 9	.911 5-	1.040
						eaxiede:	S FOF PI	ERIOD OF	RECOED					
		6- 5 1973	0.281	6- 4 0 1973	.272 6- 19		6- 4 1973		6- 4 1.0 197 <i>3</i>	67 6- 4 1973		6- 4 1 197∋	.291 5-3 197	

Watershed Conditions: From a revised 1971 survey; sowed crop - 4%; alfalfa - 1%; pasture and range - 50% and

Ratershed Conditions: Prom a revised 1971 survey; sowed crop - 4%; alfalfa - 1%; pasture and range - 50% and miscellaneous - 5%.

Hags: Topcgraphic/Composite - Bydrologic Lata for Experimental Agricultural Ratersheds in the United States, 1965, USIA Misc. Fub. 1216, pages 69.16-8 and 69.7-21.

Precipitation: Records began Jan. 1965. Thiessen weighted average of 18 gages for 1965-74 and 15 gages for 1975 onward.

Runoff: Records began Jan. 1965.

Long-Term Precipitation: National Weather Service records at Chickasha, Oklaboma.

1977		AILY PERC	IFITATICN	(INCHES)		CHI	CRASHA, CI	KIAHCMA	WATERSHED	513 NBAB	TABLEE	
. Cay	Jan	F∈b	tar	Apr	tay	Jun	Jul	Auç	S€E	Cct	1 c v	[ec
1 1 1 2 1 3	0.0 0.0 0.0 0.0	0.0 0.01 0.04 0.0	0.7 9.16 9.9 0.9	0.9 0.0 0.0	0.22 0.32 0.77 0.03	0.0 0.0 9.0 0.0	0.81 0.0 0.0 0.0	0.07 0.0 0.0 0.0	0.0 0.0 0.0 0.05	0.0 0.0 0.0 0.48	0.02 0.03 0.03 0.0	0.01 0.0 0.0 0.0
1 5 1 6 1 7 1 6	0.0 0.04 0.0 0.02 0.16	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.38 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 9.0 0.0	0.0 0.0 0.0 0.0 0.0	0-13 0-0 0-0 0-0	0.01 0.0 0.01 0.0 0.0	0.0 0.0 T 0.72 0.17	0.0 0.0 0.0 0.0
1 10 1 11 1 12 1 13 1 14	0.0 0.08 0.05 0.0 0.0	0.0 1.32 0.01 0.0 0.3 0.3	0.27 0.3 0.9 0.0 0.0	0.0 0.0 0.07 0.07 0.0	0.0 0.0 0.40 0.04 0.04	0.0 0.04 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.9 0.0 0.02 0.0	0.03 0.0 0.21 0.41 0.0	0.0 0.0 0.0 0.0	0-0 0-0 0-0 0-0 0-0	0.0 0.0 0.0 0.0 0.0
1 16 1 17 1 18 1 19	0.0 0.0 0.0 0.0	0.0 0.0 0.0	9.9 0.01 0.0 0.9 0.9	0.21 0.01 0.05 0.0 2.10	0.14 0.01 1.0 2.66 1.51	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.58	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0-0 0-0 0-0 0-0
21 22 23 24 25	0.0 0.01 0.04 0.0	0.0 0.02 0.0 0.0 0.0	0.0 0.0 0.0 T 0.0	0.0 T 0.03 0.0 0.0	0.03 0.0 0.0 0.0	0.0 0.28 0.02 0.11 0.72	0.04 0.0 0.02 0.0	0.0 0.0 0.0 0.13	0.0 0.0 0.0 T 0.0	0.0 0.51 0.23 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 1 27 28 1 29 1 30	0.0 0.0 0.0 0.0 0.0	0.14 0.01 0.0	0.32 0.50 0.0 T 0.0 0.0	0.0 0.0 0.0 0.12	0.74 0.50 0.0 0.0 0.01 0.36	0.26 0.0 0.54 0.0 T	0.02 0.29 0.01 0.06 0.0	0.0 0.02 0.0 0.66 0.0	0.0 0.0 0.0 T 0.01 0.0	0.0 0.0 0.0 T 0.0 0.06 0.06	0.0 0.0 0.06 0.0	0.0 0.0 0.0 0.06 0.0
TCTAL STA AV	0.40	1.55 1.27	1.26 2.13	2.98	8.81 4.39	2.17 3.00	1.45 2.61	1.49 3.05	0.84 3.88	1.40 2.55	1.03 1.34	0.12 1.00

Air Temperatures: See table for Watershed W-700, 169.007) of this publication. Gaging: Thiesser weighted average of 18 rain gages for 1965-74 and 15 gages for 1975 coward. Station Averages: 13 yr beginning 1965.

Cooperative Research Project of OSCA and Cklahowa Agricultural Experiment Statics

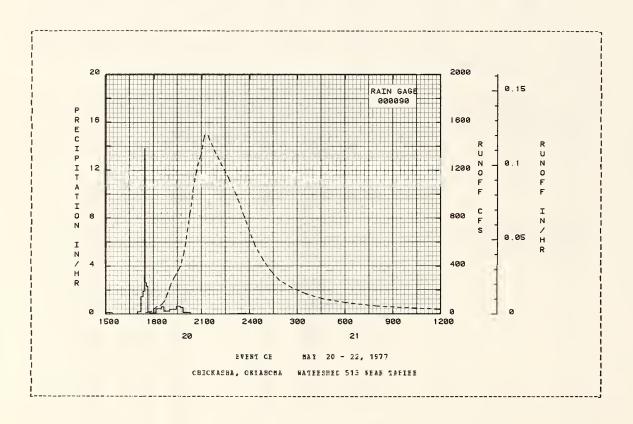
1971	7 !	PAN OAIT	LISCHAS	GE (CFS)		CHIC	KASEA, CK	IABC#A	VATERSHER	513 BEAT	TARIFF	
Day	Jan	F∈b	Ba I	AFI	Hay	Jun	Jnl	Aug	S∈p	Cct	HCV	D∈c
1	1.03	1.39	1.39	1.26	1.26	3.55	4.66	0.12	0.10	0.03	0.34	0.77
2	1.14	1.46	1.39	1.26	1. 83	2.57	2.57	0.12	0.07	0.03	0.34	0.77
3	1.20	1.46	1.60	1.20	2.54	2.65	1.14	0.10	0.06	0.03	0.40	0.77
4	1.33	1.46	1.53	1.0€	14.49	2.45	0.82	0.66	0.08	0.09	0.46	0.82
5	1.14	1.33	1.39	1.03	2.23	2.26	0.64	0.04	0.05	0.13	0.49	0.87
6	1.26	1.33	1.33	1.08	4.01	2.09	0.56	0.04	0.15	0.13	0.49	0.82
7	1.20	1.33	1.33	1.0€	1.68	1.76	0.46	0.04	0.15	0.18	0.53	0.77
8	1.03	1.33	1.33	1.08	1.39	1.60	0.40	0.04	0.12	0.16	C-92	0.82
č	0.97	1.32	1.33	1.08	1.20	1.60	0.43	0.03	0.09	0.12	1.19	0.60
10	0.92	1.33	1.39	1.03	1. 14	1.33	0.4€	0.03	0.07	0.12	0.73	0.73
11	0.52	2.17	1.60	0.97	1.03	1.26	0.40	0.03	0.06	0.06	0.64	0.82
12	0.92	3.55	1.33	1.06	0.97	1.08	0.31	0.04	0.05	90.0	0.64	0.92
13	1.03	2.00	1.20	1.14	1.26	1.08	0.26	0.05	0.74	0.10	0.64	0.92
14	1.03	1.60	1.20	1.14	1.60	1.03	0.22	0.05	C.34	0.10	0.64	0.87
15	0.87	1.53	1.20	1.53	1. 14	0.97	0.22	0.05	0.18	30.0	0.68	0.87
16	0.87	1.46	1.20	1.46	2.09	0.92	0.22	0.04	0.12	0.08	0.68	0.87
17	0.97	1.46	1.33	1.53	1.33	0.87	0.18	0.03	0.10	0.09	0.64	0.77
18	0.97	1.46	1.33	1.26	1.53	0.73	0.13	0.03	0.09	0.09	0.64	0.73
15	1. 26	1.39	1.20	1.14	142.30	0.68	0.13	0.10	0.08	0.09	0.64	0.77
20	1.33	1.33	1.14	13.66	245.18	0.64	0.12	0.13	30.0	0.09	0.64	0.77
21	1.39	1.33	1.08	18.99	93.01	0.56	0.13	0.15	9.08	0.05	0.60	0.64
22	1. 39	1.39	1.08	2.65	12.14	0.53	0.16	0.16	0.07	0 - 10	0.60	0.82
23	1.46	1.39	1.20	1.92	6.95	0.73	0.15	0.15	0.06	0.29	0.64	0.82
24	1.39	1.39	1.33	1.68	5.22	0.73	0.18	0.09	0.06	0.16	0.64	0.87
25	1.33	1.39	1.39	1.39	4.33	3.24	0.12	0.08	0.05	0.15	0.64	0.87
26	1.39	1.46	1.53	1.33	3.73	1.53	0.10	0.04	0.05	0.15	0.68	0.87
27	1.39	1.53	2.26	1.35	22.67	1.63	0.29	0.03	0.04	1. 13	0.73	0.87
28	1-20	1.46	2.00	1.20	6.58	1.89	0.37	0.03	G.04	0.43	0.77	0.92
25	1.03		1.35	1.14	4.47	12.19	3.24	0.58	0.05	0 - 40	0.77	0.92
30	0.97		1.20	1.39	3.60	1.46	0.18	0.31	0.04	0-40	0.77	0.57
31	0.57		1-14		4.33		0.12	0.15		0.40		0.97
PEAS	1.139	1.537	1.366	2.306	19.271	1.847	0.528	0.095	0.111	0.180	0.639	0.826
INCHES	0.068	0.083	0.082	0.134	1.155	0.107	0.032	0.006	0.006	0-011	0.037	0.045
STA AV	0.153	0.154	0.309	0.399	0.619	0.531	0.167	0.180	0.214	0.221	0.175	0.134

77 	SFLECIFO BONG									
	FERNT CONDIT	CICES		E A:	INFALL			FORC	FF	
Lat∈					Intensity					
Eo-Oay	(inches)	(inches)	Mo-Oay	cf Day	(in/hr)	(inches)	Ec-Oay	of Lay	(cfs)	(inches)
			EVF	NI OF	MAY 20 -	22, 1977				
	NG 200090			FG 000						
5-20	0.0	C.072	5-20	1500	0.0	0.0	5-20		12.780	6.G
				1524	0.1250			1753	25.570	0.0000
				1549	0.0	C.05		1800	43.950	0.0009
				16 19	0.0200	0.06		1811	61.990	0.0017
				1659	0.0300			1830	£1.400	0.0035
WATERSHE	O CCKLITIONS:									
	vised 1971 st			1711	0.2000	0.12		1841	113.210	0.0050
	r - 4%: alfal			1720	1.9667	0.34		1853	179.610	0.0073
	re and range			1725	1.9200	0.50		1906	257.170	0.0073
	llaneous - 59									
ind R15C€	TIONEOUS - 21			1726	13.8034	C.73		1918	310.416	0.0157
				1732	2.€000	0.99		1941	400.229	0.0267
				1738	2.3000	1.22		1953	505.219	0.0340
				1746	0.1500	1.24		2000	596.698	0.0391
				1608	0.6618	1.27		2006	691.500	0.0003
				1828	0.4500	1.42		2018	866.648	0.0569
				1838	0.6000	1.52		20 30	1071.456	0.0725
				1900	0.2455	1.61		2041	1205.648	0.0893
				1925	0.4080			20 5 3	1300.520	
				1940	0.6400	1.94		2100	1349.610	0.1220
				1950	0.5400	2.03		2106	1451.118	0.1220
				20 19	0.1241	2.09		2111	1452.988	0.1431
				20 19	0.1241	2.05		2111	1472.300	0. 1431
				2104	0.0	2.09		2123	1492.988	0.1672
				2140	0.0167	2.10		2130	1951.116	0 - 16 10
				2297	0.0	2.10		2153	1339.698	0.2241
				2317	0.0200			2241	1132.878	0.3037
				2346	0.0414			2311	567.308	0.3464
				2340	3.0414	2.13		2311	3C 10 30 C	0 - 404
			5-21	12	0.0231	2.14		2341	805.780	6.3825
								2400	691.500	C.4016
							5-21	23	560.550	0-4210
								53	945.260	0.9912
								123	351.128	0.4572

Conversion Factor: CFS to IM/HB, multiply by G.00008054.

1977	SE	LECTER EUNC	FE EVENT			CHIC	ASHA, CKI	ARCEA W	ATERSEEC !	13 NEAF TA	LIEE
D	NTECEL ate -Day	BNI CCNCII Fainfall (icches)	Funcff (inches)	D≥t∈ Mo-Cay	Tiπ∈	NFALL Intersity (in/br)		Dat∈ Mc-Day	RUNCI Time of Day	Fate (cfs)	Acc. (inches)
				EVENT CF	BAY	20 - 22,	1977 (cc	hainuel)			
								5-21	153 241 341 441 611	280.548 217.020 161.880 123.730 31.920	0.4700 0.4860 0.8013 0.5128 0.5258
									811 1030 1241 1800 2400	64.330 46.420 38.610 26.450 16.620	0.5384 0.5489 0.5565 0.5705
								5-22	600 1200 2400	13.630 11.430 8.360	0.5853 0.5953 0.6045

Conversion Factor: CPS to IN/hF, multiply by 0.0000 8054.



CHICKASEA, CKIAHCPA WATEFSHED 311 BEAF FOCASSET

LCCATICE: Salt Creek Watershed 1/2 mile East of E.S. highway 81 mear Eccarset, in Gredy County, Ckle.; tributary to washita Biver; Bed Biver Basin. GAGING STATICE--EW1/4 sec. 28, T. 8 h., E. 7 %., lat. 35 deg. 08 mir. 44 sec. B, long. 97 deg. 57 min. 30 sec. 6.

15206.00 acres 23.76 sg. miles ABEA:

	RIEFE	FEZCIE	ITATICS	ABE BUNCE	E (INCLE	٤)	CE	ICRASHA,	CRIMBCHA	RATE	SEEL 31	1 5225	POCASS	ΕΊ	
		Jau	P∈b	Par	Apr	Pay	Juu	Jul	≱tg	2 e ţ	Cct	Nev	D∈c		Louval
1977	P Q	0.32	1.49	0.66	4.16 0.107	9.32 1.256	2.23 0.146	3.05 0.204	3.42 0.006	0.65 0.000	1.50 0.0	1.33 0.003	0.0		26.22 1.757
STA AV	P Q	0.90 0.061	1.00 0.055	2.36 0.196	3.27 0.363	4.89 0.569	3.11 0.350	2-44 0-140	2.45	3.27 0.060	2.73 0.117	1.40			28.35 2.094
	ARKO	 Bezi		CHAEGE (in		 B	azimum	Sclure fo	cr Selecte	d Time	luterva	 1			
	ARSO		eum arg∈		2 !	 B	axists 6 Ec	Volume fo		d Time		 1		 ε	cays Vol.
1977	A 8 8 0	Bexi Disch	mum arg∈ 5at∈	1 Bour	2 ! . Date	Hours Vol.	aximum 6 Ec Date	Volume for	cr Selecte	d Time 1 Cate	luterva Day Vol.	l 2 Da Cate	ys Vcl.	£ Cat∈	Vol.
1977	ARSO	Bexi Eisch Date	mum arg∈ 5at∈	1 Hcur Cate Vcl	2 ! . Date	Bcurs Vcl.	aximum 6 Ec Date 5-20	Volume for	cr Selecte 12 Fours ate Vol.	d Time 1 Cate	luterva Day Vol.	l 2 Da Cate	ys Vcl.	£ Cat∈	Vol.

1977	E A	ILY PEFCI	FITATION	(INCHES)		CEICK	ESHA, OKL	BECHA W	TERSHED 3	311 BEAR P	OCASSET	
Day	Jau	₽eb	Par	y tr	Pay	Jun	Jul	žuς	5 ∈ ţ	Cct	₽CA	Ĺ€C
1 1 2 2 4	0.0 0.0 0.0	0.0 0.0 T 0.07 0.0	0.0 0.08 0.0	0.0 0.0 0.0	0.42 0.35 0.42 0.27	0.0 0.0 0.0	1.69 0.0 0.0	0.06 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.04 0.06 0.0	0.0 0.0 0.0
5	0.0	0.0	0.0	0.0	0-45	0.0	0.0	0.02	0.16	0.0	0.0	0.0
6 1 7 1 8 1 9	0.0 T 0.0 0.01 0.11 0.0	0.0 0.0 0.0 0.0	0.6 0.0 0.0 0.0 0.32	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.01 0.0	0.0 0.0 0.0 0.56	0.0 T 0.0 0.0 0.0 0.10	0.0 T 0.0 0.0 0.0	0.6 0.18 0.78 0.19	0.0 0.0 0.0 0.0
11 12 13 14 15	0.0 0.15 0.0 I 0.0	1-26 0-01 0-0 0-0 0-0	0.0 0.0 0.0 0.0	0.0 0.0 0.16 0.03 0.32	0.0 0.0 0.11 0.01 0.25	0.0 0.16 0.0 0.0	0.0 0.0 0.0 0.0 0.29	0.01 0.0 0.02 0.0	0.0 0.08 0.15 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 T 0.0 0.0 0.0	0.26 0.0 0.01 0.0 T 1.70	0.0 0.01 0.0 2.20 1.69	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 T 0.01 0.C 0.67 0.C	0.01 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.03 0.02 0.0 0.0	0.0 1 0.0 0.0 0.0	0.0 0.0 0.3 0.0 1	0.0 T 0.01 0.0 0.0 0.0	0.02 0.0 0.0 0.0	0.0 0.24 0.13 0.01 0.46	0.05 0.0 0.0 0.0	0.6 0.0 0.0 1.21	C.0 O.0 C.02 O.0	0.0 0.74 0.23 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 27 28 29 30 31	0.0 0.0 0.0 0.0 0.0	0.10 0.05 0.0	0.15 C.41 0.0 I 0.0 0.0	0.0 0.0 0.0 1.65 0.0 1	1.33 0.41 0.0 0.0 0.63 0.55	0.25 0.0 0.53 0.05 0.0	0.0 0.28 0.07 0.06 0.0	0.0 0.16 0.13 0.17 0.0	0.0 0.0 0.01 0.02 0.0	C.0 0.01 0.0 T 0.0 0.08 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.05 0.0
TCTAL STA AV	0.32 0.90	1.49 1.00	0.66 2.06	4.16 3.27	9.32 4.69	2.23 3.11	3.05 2.44	2.42 2.45	0.65 3.27	1.50 2.73	1.33 1.40	0.05 0.83

Air Temperatures: See table for Watershed W-700, 169.007) of this publication. Gaging: Thiesser weighted average of 9 rain gages. Station Averages: 11 yr beginning 1967.

Cooperative Research Project of OSDA and Cklahoma Agricultural Experisent Station

Batershed Conditions: Prom a revised 1974 survey; sowed crop - 36%; row crop - 2%; altalfa - 2%; pasture and range - 53%; and miscellaueous - 7%.

Baps: Topographic - Bydrologic Cata for Experimental Agricultural Watersheds in the United States, 1967, USEA Bisc. Pub. 1262, page 69.27-4. Composite - Bydrologic Cata for Experimental Agricultural Watersheds in the United States 1965, USEA Bisc. Pub. 1216, page 69.27-21.

Frecipitation: Fecords began Jan. 1967. Thiessen weighted average of 9 gages.
Funoff: Fecords tegan Jan. 1967.

Long-Term Precipitation: Mational Weather Service records at Chickashe, Cklaboma.

197	7 (TEAN DALL	Y LISCHAFO	E (CFS)		CEICK	ASHA, CFIZ	BCFF B	TERSBEC :	11 FEAF E	OC ASSET	
Lay	Jan	F∈h	Mar	FFr	ž a y	Jur	Jnl	Aug	S€p	Cct	bcv	Lec
1	0.26	0.17	0.13	0.15	5.59	27.16	135.37	0.05	0.01	0.0	0.02	0.08
2	0.26	U.17	6.13	0.20	1€.42	12.22	12.76	0.01	0.0	0.0	0.06	0.08
3	0.23	0.17	0.13	0.13	10.89	7.91	4.61	0.01	0.0	0.0	0.09	0.08
4	0.17	0.17	0.13	0.11	24.57	6.23	2.63	0.01	0.0	0.0	80.0	0.08
5	0.15	0.17	0.13	0.05	2.9€	3.63	1.34	0.01	0.0	0.0	0.08	30.0
€	0.15	0.20	0.13	0.11	4.58	2.51	9.73	0.01	0.0	0.0	0.05	0.0€
7	0.13	0.20	0.13	0.05	2.40	1.11	0.52	0.0	0.0	0.0	0.04	0.08
8	0.11	0.20	0.15	0.35	1.42	0.57	0.32	0.0	0.0	0.0	0.17	0.06
ç	0.11	0.20	0.13	0.15	0.85	0.48	0.23	0.0	0.0	0.0	0.13	0.06
19	J. 11	6.26	2.11	9.13	0.€2	0.52	0.20	2.08	6.0	0.0	0.09	0.08
11	ā . 13	1.11	0-44	0.11	0.52	0.85	0.17	1.06	0.0	0.0	0.08	0.09
12	0.13	0.98	0.15	0.11	0.52	7.58	0.15	0.13	0.0	0.0	0.06	0-11
13	0.13	0.48	0.09	0.13	3.44	3.21	0.13	0.05	0.0	0.0	0.05	0.11
14	0.13	0.36	0.23	0.13	0.40	0.73	0.13	0.04	0.0	0.0	0.04	0.11
15	9.11	0.23	0.2€	0.20	0.3€	0.44	0.13	0.03	0.0	0.0	E0.0	0.08
16	ə . 11	0.17	0.2€	0.17	0.29	0.36	0.13	0.61	0.0	0.0	0.64	G.06
17	0.11	0.17	0.15	0.29	0.23	0.32	0.13	0.01	0.0	0.0	0.03	0.08
16	9.11	0.17	0.15	0.17	0.20	0.2€	0.06	0.0	0.0	0.0	0.64	0.08
19	0.13	0.17	6.13	0.15	72.€5	0.26	0.0€	0.01	0.0	0.0	0.05	0.09
20	0.29	9.2€	0.13	6.80	133.02	0.26	9.95	0.01	0.0	0.0	0.05	0.11
21	0.29	0.26	0.11	9.53	267.38	0.23	0.04	0.0	0.0	0.0	0.04	0.11
22	0.32	0.17	0.11	0.62	20.12	0.17	0.01	0-0	0.0	0.0	0.03	0.11
23	0.32	0.15	9.11	0.32	10.05	0.29	0.01	6.0	0.0	0.0	0.04	0.11
24	0.29	0.15	0.17	0.25	7.04	0.23	0.01	0.0	0.0	0.0	0.04	0.11
					5.47	1.51						
25	0.13	0.2€	ð.23	0.20	2.47	1.21	0.01	0.08	6.0	0.0	0.04	0.11
2€	3.08	3.2€	0.23	0.17	4.69	1-04	0.0	0.04	9.0	0.0	0.04	0.11
27	0.2€	0.23	0.26	0.09	130.35	0.48	0.01	0.01	0.0	0.0	0.04	0.09
28	ű. 17	0.17	0.26	0.11	22.05	1.34	0.94	0.01	0.0	0.0	0.05	0.09
29	0.17		0.17	8.71	11.16	10 - 10	0.0€	0.01	0.0	0.0	0.06	0.11
30	0.17		0.15	39.15	7.69	0.75	0.05	0.01	0.0	0.0	0.06	0.11
31	0.17		0.13		36.42		0.05	0.01		0.0		0.11
SEAN	0.171	0.274	0.168	2.289	25.935	3.113	4.199	0.119	0.000	0.0	0.057	0.052
INCHES	0.006	0.012	0.308	0.107	1.258	0.146	0.204	0.00€	0.000	0.0	0.003	0.004
SIA AV	0.061	0.05€	0.198	0.363	0.589	0.250	9.140	0.057	6.050	0.117	0.078	0.02€

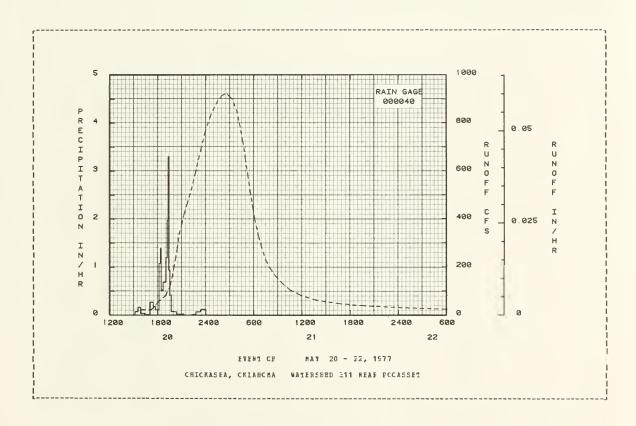
Ctation Averages: 11 yr keginning 1967. Conversion Factor: CPS to IN/LAY, multiply by 0.001565. Inches to AC-FI, multiply by 1,267.

77 SFLECTED RON	OFF EVENT			CHICKAS	EA, CKIAEC	TA AT	ERSHED 31	NFAF FOCA	SSFT
ANTECEDENT CONDI	TICKS		F A	INFALL			FUNCI	F	
ANTICIDENT CONDI Late Fainfall Mc-Day (irches)	Funcff (inches)	Dat∈ Mo-Day	Tiπ∈ of Tay	Intensity (in/br)	Acc. (inches)	Date Bc-Day	Time of Cay	Fat∈ (cfs)	Acc. (inches)
		-				·	-		
		EVE	NI CE	May 20 -	22, 1977				
EG OCC340			FG 000	0 40					
5-20 6.0	0.0€1	5-20		0.0	0.5	5-20	1€00	23.960	0.0
			1533	0.0783			1711	23.240	0.0018
			1551	0.1667	0.08		1730	33.050	0.0024
			1622	0.0387	0.10		1800	54.160	3500.0
			1702	0.0150	0.11		1900	E2.850	C.0083
WATERSHED CONTILIONS	:								
rom a revised 1974 s	urvev:		1726	9.2750	0.22		1930	116.020	0.0116
owed crop - E7%; row	CICE -		1783	0.1765	0.27		1941	135.910	0.0131
% alfalfa - C% nas	ture		181C	0.1111	0.32		1953	173.190	0.0151
2%; alfalfa - 2%; pas and range - 52%; and	miscel-		1820	1.0800	6.50		2006	211.050	0.0179
laneons - 7%.	mircer.		1826	1.4000	0.64		2016	249.190	0.0209
taneous - //.			1020	1.4000	2.04		2010	243.130	0.0203
			1841	0.5200	0.77		20 30	292.178	0.0244
			1901		1.00		2041	339.270	0.0282
				0.6900				376.676	0.0256
			1911	1.2000	1.20		2 10 0		
			1918	1.9714	1.43		2118	422-448	0.0434
			1922	3.3000	1. 65		2148	477.456	0.0581
			1931	0.9333	1.79		2216	535.398	0.0746
			1941	0.4200	1.86		2241	550.446	0.0887
			1957	0.0750	1.66		2306	650.850	0.1055
			2021	0.0750	1.51		2330	704.438	0.1232
			2047	0.0231	1.92		2400	774.428	0.1473
			21 1 6	0.0207	1.93	5-21	41	836.866	0.1833
			2216	0.0	1.93		130	653.446	0.2294
			2247	0.0194	1.94		200	914.300	0.2565
			2321	0.070€	1.56		223	521.300	0.2618
			2321	0.0706			241	919-540	0.2558
			2345	0.1250	2.03		241	3 134 2 40	U-2336
			2409	0.1200	2.0€		318	698.638	0.3364
			_ ,				348	855.780	0.3650
							4 18	782.570	0.3517
							441	710.678	0.4104
							500	637.370	0.4164
							200	0376370	007243

Conversion Factor: CFS to IN/HF, multiply by 0.00006522.

977	SELECTED BUNG	FF EVFKT			CE]CK≱:	RA, CFIA	CEE GAT	EBSBEC 31	NERE FOCE	55F1
ANTE	CEDENT CONDIT	24012			NEALL			EUNC		
Dat∈		Funcfi	Dat∈ #o-£ay		Intersity (in/hr)					
			EVERT CF	FAY	20 - 22,	1977 (CC	CNTINUFE)			
							5-21	518	569.000	6.4361
								536	502.658	0.4466
								553	443.840	6.4553
								611	365.830	0.4635
								636	328.049	0.4732
								700	276.475	0.4611
								730	227.870	6.4893
								860	195.690	0.4562
								841	163.210	0.5042
								9.30	134.100	0.5121
								10 30	105.070	0.5199
								1200	75.460	0.5285
								1400	60.470	0.5281
								1630	48.260	0.5465
								1930	29.330	(.5555
								2400	31.360	0.5619
							5-22	€00	23.9€0	0.5767
							2 2 2	1200	18.530	0.5850
								2400	13.036	0.5973
								2.400		

Conversion Factor: CFS to IN/6F, unltiply by 0.00006522.



69.027- 3

CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMPER

LOCATION: Grady County, Okla., northeast of Amter; tributary of West Fitter Creek, Washita Fiver: Fed Fiver Easin. GAGING STATION--At county road bridge, NF1/4 sec. 20, T. 9 N., E. 6 W., lat. 35 deg. 09 wir. 37 sec.; long. 97 deg. 51 min. 06 sec.

AREA: 1620.00 acres 2.53 sg. miles

ac	NIHLE	PRECIP	ITATICE	ANE FUNC	FF (IKCBF	s)		CEICK	ASHA, CRI	AHOHA	WATERSHE	E 515 B	EAF AMEE	F
		Jan	F∈b	Mar	Apr	Мау	Jun	Jul	⊉ug	Sep	Cct	ãc▼	Ľ€C	lsuzī
1977	F Q	0.33	1.42	1.31 0.305	2.82 0.013	8.55 0.823	2.70 0.017	1.90 0.432	1.23 0.0	0.77 0.u	1-48	1.10	0.09	23.70 0.708
VA AF	P Q	1.11 0.188	1-24 0-198	3.17 0.689	3.04 0.399	5.53 0.654	3.01 0.591	2.69 0.149	2.34 0.147	2-99 0-030	2.42 0.109	1.22 0.143	0.72 0.039	29.49 3.518
	ANNU	AL BAXI Baxi Disch	enu	1 Hour		E	 aximum	Volum∈ f	cr Select	ed Time	 Inter v a	 1		
														H Lays
1977		Dat∈ 	Bat∈	Dat∈ Vo	l. Uate	Vol.	Dat∈	Vol. D	at∈ Vol.	Cate	Vĉl.	Cat∈	Vol. U	et∈ vcl.
1977		Date 5-20	Bat∈	Dat∈ Vo	1. Date 081 5-20	Vol. 0.111	Dat∈ 5-20	Vol. D	ate Vol. -20 0.34	Cate	Vĉl.	Cat∈	Vol. U	et∈ vcl.

Natershed Couditions: The land use was sowed crop - 22%; row crop - 5%; timbered pasture - 6%; timber - 3%; pasture - 51%; farmsteads - 3%; farm pends - 3%; farm reads - 2% and highways - 1%.

Maps: Topographic/Hydrologic - Hydrologic Data for Experimental Agricultural Natersheds in the United States, 1973, USIA Misc. Fub. 1420, p. 65-028-6.

Precipitation: Fecords began Oct. 1961. Thiessen weighted average from rain gages 61, 62 and 65 cm cr near the watershed.

Hunoff: Records began August 1572. STA AV values based on 5 yr beginning 1973.

Long-Term Frecipitation: National Neather Service records at Chickasha, Cklaboma.

1975	EA	ILY PHEC	PITATION	(INCHES)			CHICKASBA,	, CRIABONA	WATERS	BED 515 8	EAS ABBES	
Lay	Jan	F∈b	Mar	Apr	āay	Jur	Jul	₽ng	Sep	Cct	%c v	L€¢
1 2 3 4 1 5	0.0 0.0 0.0 0.0	0.0 0.0 0.05 0.0 0.0	0.0 0.43 0.0 0.0	0.0 0.0 0.0 0.0	0.25 0.28 0.57 0.08 0.17	0.0 0.0 0.0 0.0	1-06 0-0 0-0 0-8 0-0	0.10 0.0 0.0 0.0 0.0	0-0 0-0 0-0 0-05 0-15	0.0 0.0 0.0 0.50 0.0	0.04 0.04 0.01 0.0	0-0 0-0 0-0 0-04 0-0
	0.02 0.0 0.0 1 0.13 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.23	0.0 0.0 0.0 0.3 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0-0 0-0 0-0 0-0	0.0 0.0 0.0 0.0	0.0 0.05 0.0 0.0 0.0	0.0 0.07 0.69 0.16 0.0	0-0 0-0 0-0 0-0
 11 12 13 14 15	0.0 0.13 0.01 0.0	1.22 0.0 T 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.02 0.0 0.32	0.0 0.0 0.53 0.02 0.11	0.0 0.56 0.0 0.0	0.0 0.0 0.0 0.0 0.15	0.05 0.0 0.17 0.0 0.0	0.0 0.24 0.16 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0
1 18 17 18 19 20	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 T 0.3 0.0	0.22 0.0 0.0 0.3 2.00	0.0 0.0 0.0 2.44 2.04	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.54 0.0	9-0 0-0 0-0 0-0 0-0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0
21 22 23 24 25	0.0 0.02 0.02 0.02 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.3 T 0.0	0.01 0.05 0.0 0.0	0.02 0.0 0.0 0.0	0.0 0.40 0.04 0.06 0.57	0 - 0 1 0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.20 0.20	0.0 0.0 0.0 0.0	0.0 0.86 0.18 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 27 28 29 30	0-0 0-0 0-0 0-0 0-0	0.13 9.02 0.0	0.22 0.43 0.0 0.0 0.0	0.0 0.0 0.0 0.20 0.20	0.68 0.41 0.0 0.0 0.15 0.80	0.20 0.0 0.66 0.01 0.0	0.0 0.34 0.08 0.03 0.0	0 - 0 0 - 0 0 - 0 0 - 17 0 - 0 0 - 0	0.0 0.0 0.0 0.0 0.01	0.0 0.0 0.0 0.0 0.0 0.09	0.0 0.09 0.09	0 - 0 0 - 0 0 - 0 9 - 0 5 0 - 0
ICIAI SIA AV	0.33 1.11	1.42 1.24	1.31 3.17	2.62 3.04	£.55 5.53	2.70 3.01	1.90 2.69	1.23 2.34	0.77 2.99	1.48 2.42	1.10 1.22	0.09 0.72

Air Temperature: See table for Watershed M-700 (69.007) of this publication. Gaging: Thiesser weighted average from rain gages 61, 62 and 69 on or near the watershed. Station Averages: 5 yr beginning 1973.

Cooperative Hesearch Project of USDA And Oklahoma Agricultural Experiment Station

157	7	mean Dáil	Y TISCHAR	GE (CFS)			CEICKASIA	, CKIAGCBA	WATERS	EEC 515 B	EAS APBEE	
Day	Jan	₽€b	Far	Apr	Bay	Jun	Jul	Aug	Sep	Cct	KO¥	Γ∈c
1	0.010	5.020	0.013	0.010	0.010	0.350	2.184	0.0	0.0	0.0	0.0	0.0
2	0.020	0.020	0.010	0.010	0.010	0.110	0.030	0.0	0.0	0.0	0.0	0.0
3	0.020	0.020	0.010	0.010	0.030	0.050	0.010	0.0	0.0	0.0	0.0	0.0
4	0.020	0.029	0.010	0.010	0.040	0.040	0.010	U.O	0.0	0.0	0.0	0.0
<u>=</u>	0.010	0.010	0.010	0.010	0.013	0.030	0.0	0.0	0.0	0.0	0.0	0.0
E	0.020	0.01J	0.313	0.010	0.010	0.020	0.0	0.0	0.G	3.0	0.0	0.0
7	0.020	0.010	0.010	0.010	0.010	0.020	0.0	0.0	0.0	0.0	0.0	0.0
8	0.010	0.010	0.010	0.010	0.010	0.020	0.0	0.0	0.0	0.0	0.0	0.0
5	0.310	0.020	0.010	0.010	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
10	0.010	0.020	0.010	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
11	0.010	0.363	0.010	0.010	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.040	6.010	0.010	0.0	0.030	0.8	0.0	0.0	0.0	0.0	0.0
13	0.0	0.030	0.013	0.310	0.010	0.010	0.0	0.0	0.0	0.0	0.0	0.0
14	0.01)	0.020	0.013	9.010	0.010	0.013	0.0	0.0	0.0	0.0	0.0	0.0
15	0.030	0.020	0.010	0.010	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
16	0.020	0.020	0.013	0.010	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
17	0.037	0.020	0.01)	0.010	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
18	0.313	0.010	0.010	0.010	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
19	0.030	0.010	0.010	0.010	8.508	0.017	0.6	0.0	0.6	1) - 0	0.0	U.O
20	0.030	0.010	0.310	0.501	19.037	0.013	0.0	0.0	0.0	0.0	0.0	0.0
21	0.030	0.010	0.010	0.164	9.201	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.030	0.010	6.013	0.010	1.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.030	0.010	0.010	0.010	0.200	0.010	0.0	0.0	0.9	0.0	0.0	0.0
24	0.030	0.510	0.010	0.010	0.070	0.010	0.0	0.0	0.9	0.0	0.0	0.0
25	0.030	0.010	0.010	0.010	0.040	0.030	0.0	0.0	0.0	0.0	0.0	0.0
26	0.033	0.013	0.010	0.010	0.061	0.010	0.0	0.0	0.0	0.0	0.0	0.0
27	0.030	0.010	0.020	0.010	1.659	0.010	0.0	0.0	0.0	0.0	0.0	0.0
28	0.320	0.010	0.310	0.010	0.480	0.296	0.0	0.0	0.0	0.0	0.0	0.0
25	J = 0 2J	5.5.0	0.010	0.010	0.170	0.010	0.0	0.0	0.0	0.0	0.0	0.0
30	0.020		0.010	0.010	0.070	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.020		0.010	0.010	2.057		0.3	0.0	0.0	0.0		0.0
EAS	0.0197	0.3171	0.0103	0.0312	1.3593	0.0359	0.0721	0.0	0.0	0.0	U . O	0.0
INCHES	0.005	0.037	0.005	0.013	0.623	0.017	0.032	0.0	0.0	0.0	0.0	0.0
VA AT	0.168	0.198	0.689	0.399	0.854	0.591	0.145	0.147	0.030	0.108	0.143	0.039

LCCATION: Grady County, Cklahoma; SM 1/4, sec. 12, T. 7 N., F. 6 M., about 6 miles east and 3 miles rorth of Chickasha, Cklahoma; Washita River Basin. Iat. 35 deg. 05 mir. 21 sec. N.; Long. 97 deg. 47 min. 25 sec. N.

AFER: 23.72 acres

	NTHI	PFECIP	TTATION	ANE FUNC	FF INCEE	S)		(CHICKASH	A, CFIAH	CHA WATE	FSEEC F-	-5	
		Jan	F∈b	far	AFE	Bay	Jun	Jul	λεg	S∈F	Oct	∦ C A	Ĉ€C	Arnual
1977	p Q	0.3€ 0.0	1.42	1-47 0-3	3.04 0.064	9.12 1.196	2.17 0.0	1.29 0.0	1.54	1.0€ 0.0	1.19 0.0	1.00	9.12 0.0	23.80 1.260
STA AV	P Q	0.90 0.035	1.19 0.223	2.19 0.199	3.12 9.169	4.89 0.516	2.91 2.251	2.53 9.028	2.51 3.004	3.75 9.045	3.17 9.189	1.42	0.57 0.021	29.54 1.579
	2 11 11 0													
		 ixsM				 M	aximum	vclus∈ f	cr Selec	ted Time	Interva	1	INTERVALS	
	A N N I		 mum arg∈	1 Hour Date Vol	ž 1	 M	aximum 6 Hc	vclue∈ f		ted Time			y s	e Cays
1977	ANNU	Maxi Disch	mum arge Fate	1 Hour	Ž 1	Hcurs Vcl.	aximum 6 Hc Date	vclue∈ f	cr Selec 12 Ecurs ate Vcl	ted Time 1 . Eate	Interva Day Vol.	1 2 Car Cate	ys Vcl. Da	E Cays
1977	A N N (Maxi Cisch Date	mum arge Fate	1 Hour Date Vol	2 1 L. Eate	Hcurs Vcl.	aximum E Hc Date 5-20	Vcl. C	cr Selec 12 Ecurs ate Vcl	ted Time 1 . Eate	Interva Day Vol.	1 2 Car Cate	ys Vcl. Da	E Cays t∈ Vol.

Watershed Conditions: 100% rangeland, native grass rangeland, continuously grazed by teef cattle during recent years. Fange condition class during 1917 was good. The vegetative occur in early December 1917, based on 25 clipped samples oniformly spaced, averaged 1,988 lbs. of standing grass, 188 lbs. of weeds, and 5,014 lbs. of mulch per acre. Prior to Oct. 1970 this watershed was within the same pasture area as hatershed R-6, however, was subjected to a slightly heavier grazing rate.

Mage: Topographic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USCA Misc. Fub. 1226, page 69.42-3. Composite (revised) - Hydrologic tata for Experimental Agricultural Watersheds in the United States, 1965, USCA Misc. Fub. 1216, page 69.7-21.

General Description: Hydrologic Tata for Experimental Agricultural Watersheds in the United States, 1966, USCA Misc. Fub. 1226, page 69.7-21.

Precipitation: Records tegan July 1, 1966. Thiessen weighted values from 2 cases, Nos. 195 and 196. STA AV values based on 12 yr beginning 1966.

Euroff: Records tegan July 1, 1966. STA AV values based or 12 yr beginning 1966.

Long-Term Precipitation: National Weather Service records at Chickasha, Cklahoma.

1977	C.	ALT PRECI	FITATION	(IRCHES)			C € 1C1	RASEA, CKI	LAHGBA WA	TEFSEEC F	- <u>-</u>	
Lay	Jan	Peb	Ear	AFI	May	Jun	Jul	Aug	Sep	Cct	Ncv	£∈c
1 1 2 1 3 1 4 1 5 5	2.0 0.3 0.0 0.0	0.9 0.02 0.02 0.0 0.0	0.0 0.24 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.33 0.31 0.61 0.02 0.50	0.0 0.0 0.0 0.0	0.57 0.0 0.0 0.0 0.0	0.08 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.14	9.0 9.0 0.0 9.44 0.9	0.0 0.02 0.03 0.0	0.0 0.0 0.0 0.05
6 7 8 9	0.05 0.0 0.04 0.12 0.0	0.0 0.7 0.0 9.7 0.3	0.0 0.0 0.0 0.3 0.37	0.0 0.0 0.0 0.0	0.0 0.9 0.9 0.9	0.0 0.0 0.3 9.9 0.0	0.0 0.0 0.0 0.3	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 9.0	0.0 0.05 0.71 0.12 0.0	0.0 0.0 0.0 0.0
1 11 12 13 14 15	0.0 0.07 0.05 0.0	1.18 0.0 0.0 0.0	0.0 0.0 0.0 9.0	0.9 9.9 0.08 0.9 0.40	0.0 9.0 0.41 9.05 0.48	0.0 0.02 0.0 0.0	0.0 0.0 0.0 0.0	0.9 0.9 0.0 0.9	0.0 0.31 0.57 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.0 0.0	0.9 9.0 0.9 9.0	0.9 0.05 0.0 9.0 0.0	0.13 0.0 0.0 0.0 0.0 2.21	0.10 0.0 0.0 2.66 1.96	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.57	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
21 22 23 24 25	0.0 9.32 0.03 0.0	9.0 9.94 0.0 9.9 0.0	0.0 0.0 0.0 0.0	9.9 9.97 0.9 0.0 0.0	0.02 9.0 0.0 0.0	0.0 0.26 0.0 9.15 0.78	0.13 0.0 0.06 0.0	0.0 0.0 0.0 0.16 0.0	0.0 0.0 0.0 0.0	0.0 0.94 0.27 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 27 28 29 30	0.0 0.0 0.0 0.0 0.0	9.13 9.33 0.3	0.34 0.47 0.0 0.0 0.0	0.0 0.0 0.0 0.15 0.0	0.84 0.43 0.0 0.0 0.0 0.0	0.14 0.0 0.62 0.0	9.0 0.46 0.0 0.05 0.0	0.0 0.01 0.0 0.72 0.0	9.0 0.0 0.0 6.94 0.0	0.0 0.0 0.0 0.0 0.0 0.04	0.0 0.0 0.07 0.0 0.0	0.0 0.0 0.0 0.07 0.0
TCTAI STA AV	0.38 0.90	1.42 1.19	1.47 2.18	3.09 3.12	9.12 4.69	2.17 2.51	1.29 2.53	1.54 2.51	1.06 3.75	1. 19 3. 17	1.00 1.42	0.12 0.57

Gaging: Thiesser weighted values from two gages, Bos. 195 and 196. Station Averages: 12 yr beginning 1966.

Cooperative Research Froject of QSDA and Oklahowa Agricultural Experiment Statics

197	77	MFAS DAIL	Y EISCHAR	GE (CFS)			CHIC	K3SEå, CK	IABCEA WA	TEESFEE F	-5	
Day	Jan	Feb	Bar	Apr	2 a y	Jnr	Jnl	Ang	Sep	Cct	B C ₹	£€c
1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	ŋ.:j	9.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
а	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	3.0	0.0	0.0
5	0.0	0.0	0.0	0.0	r 0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
6	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.2	0.0	0.0	0.0	0.0
7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.9	0.0	0.1	0.0	0.0	1.0	0.0	0.0
11	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
1 4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0
15	0.0	0.0	3.0	0.0	0.0	0.0	0-3	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.3	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.9	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0
16	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	9.3	0.0	0.0
19	0.0	0.0	0.0	0.0	0.421	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.363	0.755	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	3.0	0.0	0.0	C.0 1	0.012	3.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0 - 0	0.0	0.0	0.0
25	0.0	0.0	0.3	0.0	0.0	3.0	0.3	0.0	0.0	0.0	0.0	0.0
26	0.0	C.0	0.0	0.0	0.0 1	0.0	0.0	0.0	0.0	0.3	0.0	0.0
27	0.0	0.0	0.0	0.0	0.304	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.3		0.0	0.0		0.0		0.0
SFAN INCHES	0.0	0.0 0.0 0.023	0.0 0.0 0.199	0.0021 0.064 0.169		0.0 0.0 0.261	0.0 0.0 0.028	0.0	0.0 0.0 0.045	0.0 0.0 0.189	0.0	0.0 0.0 0.021

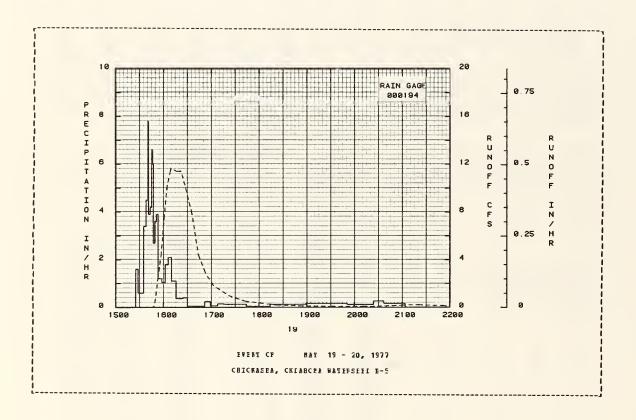
Ctation Averages: 12 yr reginning 1966. Conversion Eactor: CPS to 18/CAY, multiply by 1.003442.

ABTECEDENT CONDITIONS			IBFALL			BOSA WAIFE		
	Date @o-Day	line	Intensity			Time	Bate	Acc. (inches)
	EVF	BI CE	BAY 19 -	20, 1977				
EG 060194		EG 000						
5-19 0.0 0.0	5-19	1525 1528 1535 1538 1540	0.0 1.6000 0.6000 3.4000 4.5000		5~19	1546 1548 1550 1553 1557	0.0 0.121 0.728 2.454 4.369	0.0 0.0001 0.0007 0.0040 0.0135
WATEFSHED CCBLITICMS: 00% rangeland, native grass angeland, continuonsly		1541 1543	7.8000	0.60		1601 1604	7.775 9.945	0.0304
razeć ty beef cattle bring recent years.		1545 1546	4.2000 6.6000	0.67		1609 1616	11.660 11.410	0.0666
		1547	6.0000	1.36		1622	11.410	0.150€
		1549 1551	2.7000 3.6000	1.17 1.29		1628 1636	9.945 7.775	0.2352 0.2846
		1553 1558 1602	3.9000 1.2000 1.0500	1.42 1.52 1.59		1644 1653 1703	4.369 2.871 1.819	0.3184 0.3411 0.3575
		1606	1.6000	1.71		1722	0.967	0.3761
		1610 1616 1624	2.1000 1.1000 0.3750	1.85 1.96 2.01		1743 1823 1856	0.515 0.194 0.121	0.3871 0.3959 0.4006
		1630	0.4300	2.05		1936	0.075	0.403
		1652 1659	0.0545	2.07		2016	0.079	0.4055
		170 6 1716	0.25/1 0.0667 0.1500	2.10 2.11 2.13		2048 2104 2121	0.155 0.216 0.216	0.40H2 0.4107 0.4128
		1744	0.1286	2.19		2151	0.137	0.4165
		1614 1859	0.0400	2.21 2.31		2236 2400	0.066	0.4197
		1859 1951 2024	0.1233 0.1731 0.1273		5-20		0.026 0.036 0.003	0.4224 0.4235 0.4238
		2024				436		0.4238

Conversion Factor: CFS to IB/BF, unltiply by 0.041810.

1977 SELECTED FO	NOFE EAELL				CHICKA	EBA, CRIA	BCAA WATER	SEEC B-5	
ANTICITENT COND Late Fainfall Mo-Day (irches)	ITICES Funcff (inches)	Date Bo-Day	FAI Time cf Cay	KPALL Intersity (in/br)	Acc. (inches)	Cate Ac-Day	EUNCE Time of Eay	F Fate (cfs)	Acc. (inches)
		ENERI CE	May	19 - 20,	1977 (CC)	HTINGEC)			
		5-19	2104	0.1778	2.67	5-20	636 806 943	0.0 0.0 0.0	0.4240 0.4240 0.4240

Conversion Factor: CFS to IN/HB, multiply by 0.041810.



69.042- 3

LOCATICE: Grady County, Cklahoma; SW 1/4, sec. 12, T. 7 N., E. 6 W., about 8-1/2 miles east and E miles north of Chickasha, Cklahoma; Washita Fiver Basic. Tat. 35 deg. 05 min. 18 sec. E.; Long. 97 deg. 47 min. 20 sec. W.

AFFA: 27.22 acres

BC.	FIBI	PEFCIF	ITATICE	AND BUNC	FF (IKCHF	S)			CFICKASE	e, CKIAH	CHA SATE	FSBFC 5	-6	
		Jan	F∈b	tar.	yrı	Bay	Jun	Jul	Au g	Ser	Oct	204	Dec	Arrual
1977	F Q	0.36 0.0	1-43	1.29	2.50 0.219	€.9E 1.619	2.0€ 0.307	1.21	1.47	1.07	1.19 0.0	0.58	0.10	23.14 2.045
VA AF	P Q	0.90 0.017	1.23	2.13 0.175	3.0 € J.210	4.ES 0.647	2.85 0.250	2.49 3.039	2.49	3.77 0.057	3.12 0.179	1.43	0.56 0.011	
	ANN	Baxi	939		n/hr) ABC		aximom	Volume i	cr Selec	ted Time	Interva	1		
		Date !		1 Bour Dat∈ Vc.		Wol.			12 Bours ete Vcl		Day Vcl.	2 La Cat∈	ys Vcl. I	8 Lays ate Vol.
1577		5-20	1. 222	5-19 0.						66 5-20	0.96€	5-19	1.761 5	-19 1.790
						BAXIBOBS	FOR FE	FICE OF	PECCED					
		5-24 3 1973	3.829	5-29 1.3	514 5-24 1973	2.048	5-24 1973		5-24 2.0	60 5-23 1973	2.060	5-22 1973		-24 2.384

Watersted Conditions: 1003 rangeland, native grass continuously grazed by beef cattle during recent years. Barge condition class during the year was good, however, entire area was slightly overgrazed throughout the year. The vegetative cover in December 1977, based on 25 uniformly spaced clipped samples, averaged 1,315 pounds of standing grass, 231 pounds of weeds, and 2,746 pounds of molch. This watershed was in the same pasture area as watershed B-5, however, was subjected to a slightly lighter grazing rate.

Maps and General Description: Bydrologic Data for Experimental Agricultural watersheds in the United States, 1966, USIA Misc. Fub. 1226, pages 65, 43-1 and 65, 43-2.

Precipitation: Records began July 1, 1966. Thiessen weighted values from 2 rain gages, 196 and 197. STA AV values based on 12 yr beginning 1966.

Bunoff: Peccods began July 1, 1966. STA AV values based on 12 yr beginning 1966.

Long-Term Frecipitation: Maticnal Weather Service records at Chicksha, Cklahoma.

1977	E	AILY PERC	IFITATICE	(1&CHFS)			CFlCI	Kasfa, CK	TABONA WA	TFESFFC F	· 6	
Lay	Jan	₽€b	Ear	Afr	Bay	Jun	Jul	Aug	Ser	Cct	BOA	£€¢
1	0.0	0.0	0.0	0.0	0.2€	0.0	0.53	0.07	0.0	0.0	0.0	0.0
2	0.0	0.03	0.24	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.02	0.0
<u>=</u>	0.0	0.02	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.04	0.04
5	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.17	0.0	0.0	0.04
ε	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.03	0.0
3	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0
5 10	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0
10	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
11	0.0	1.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.07	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.27	0.0	0.0	0.0
12	0.05	0.0	0.0	0.0€	0.48	0.0	0.0	0.0	0.59	0.0	0.0	0.0
14 15	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	2.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.41	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.13	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0-0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0 2.09	2.77	0.0	0.0	0.53	0.0	0.0	0.0	0.0
		0.0	0.0	2.05	2.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.04	0.0	0.10	0.0	0.0	0.0	0.0	0.0
22	0.02	0.04	0.0	0.07	0.0	0.23	0.0	0.0	0.0	0.43	0.0	0.0
23	0.02	0.0	0.0	0.0	0.0	0 - 0	0.05	0.0	0.0	0.28	0.0	0.0
24 25	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.13	0.0	0.6	0.0	0.0
2=	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0
2€	0.0	0.12	0.34	0.0	0.81	0.12	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.05	0.44	0.0	0-41	0.0	0.48	0.0	0.0	0.0	0.0	0.0
28 25	0.0	C.0	0.0	0.0	0.0	0.78	0.0	0.0	0.0	0.0	0.07	0.0
30	0.0		0.0	0.14	0.0	0.0	0.05	0.74	0.04	0.0	0.0	0.06
31	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0
TCTAL	0.36	1.43	1.39	2.90	8.58	2.06	1.21	1.47	1.07	1.19	0.98	0.10
STA AV	0.90	1.20	2.13	3 .0 6	4. 69	2.85	2.49	2.49	3.77	3.12	1.43	0.5€

Gaging: Thiessen weighted values from two rain gages, 198 and 197. Station Averages: 12 yr beginning 1966.

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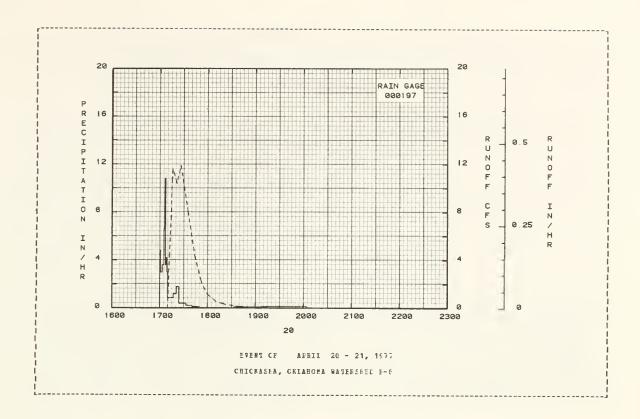
69.043- 1

197	7	MEAN DAIL	AEBORI1 Y	GE (CES)			CHIC	RASBA, CR	IAHCMA WA	TERSEED E	- 6	
Lay	Jan	F∈b	Ber	A F I	Bay	Jur	Jul	Δυg	S∈p	Cct	Kcv	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.9	0.0	G.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	6.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0 I	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	e.o	0.0	0.014	0.0	0.0	0.0	0.0	0.0	e.0	0.0
6	0.0	9.0	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0_0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
٤	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ŭ.0	0.0	0.0	0.0
11	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0
15	0.6	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.3	0.0	0.0	r 0.0	0.0	0.0	G.G	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.909	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.250	1-104	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0
23	0.0	0.0	0.0	9.6	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0 - 0	0.0	0 - 9	0 - 0	0.0	r 0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0-0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
AN	0.0	0.0	0.0	E300.0	0.0671	0.0003	0.0	0.0	0.0	0.0	0.0	0.0
CHES	0.0	0.0	0.0	0.219	1.819	0.007	C.0	0.0	0.0	0.0	0.0	0.0
A AV	0.017	0.016	0.175	0.210	0.647	0.250	0.039	0.017	0.357	0.179	0.079	0.01

Canversion Factor: CFS to IM/DAY, multiply by 0.67441E.

1977	SELECTED BON	OFF EVENT				CEICKAS	EA, CKLA	BCMA WATER	SBEC B-6	
ANTEC	FEEDT CONDI	TICKS		FAI	IBEALL			BUNCE	F	
Dat∈	Bainfall	Functi	Date	Time	Intersity	Acc.	Date	Time	Fate	Acc.
≝o-Day	(irches)	(inches)	Mo-Day	of Day	(in/hr)		Mc-Day	of Day	(cfs)	(inches)
	FG 000467		PVF			21, 1577				
4-20	EG 000197 0.0	0.0	4-20	FG 0001		0.0	4-20	1710	0.0	0.0
4-20	0.0	0.0	4-29	1701	0.0 4.E012	0.38	4-20	1712	4.344	0.0026
				1703	3.0000	0.16		1714	7.735	6.0100
				1765		0.30		1715	10.620	0.0155
				1706	3.6000 6.6016	0.30		1715	11.620	0.0223
BATERCUE	t contitions			1700	0.0010	0.41		1716	11.020	0.0223
	eland, native			1707	10.6026	0.59		1721	10.380	0.0557
	sly grazed b			1708	3.5576	0.65		1726	11.880	0.0895
	ring recent			1705	4.2010	0.72		1736	7.739	0.1451
cuccic do	iting recess .	, care		1710	3.0000	0.77		1744	4.344	0.1784
				1717	0.8571	0.67		1753	2.064	0.1555
				1721	.1.2000	0.95		1800	1. 159	0.2028
				1724	1.8000	1.04		1811	0.551	0.2085
				1733	0.4000	1.10		1823	0.314	0.2116
				1741	0.2250	1.13		1640	0.154	0.2140
				1750	0.1333	1.15		1906	0.067	0.2158
				1633	0.0279	1.17		1926	0.059	0.2164
				1908	0.1029	1.23		2006	0.015	0.2171
				2004	0.1607	1.38		2021	0.032	0.2173
				2126	0.0366	1.43		203€	0.032	0.2176
				2321	0.0730	1.57		2131	0.011	0.2183
			4-21	11	0.0360	1.60		2146	0.011	0.2164
								2246	0.005	0.2167
								2356	0.003	0.2189
								2400	0.003	0.2169
							4-21	126	0.001	0.2190
								206	0.0	0.2190
								306	0.0	0.2190
								430	0.0	0.2150

Conversion Factor: CES to IN/BB, multiply by 0.036434.



69.043- 3

LCCATICN: Grady County, Oklaboma; NG 1/4, sec. 13, T. 7 N., B. 6 W., about 6 miles east and 2-1/2 miles north cf Chickasha, Cklahoma; Mashita Fiver Basiz. Lat. 35 deg. O4 min. 56 sec. R.; Long. 97 deg. 47 mir. 27 sec. W.

19.19 acres AFFA:

80	NTHL	PRECIP	ITATICN	ANE BURG	EF (INCHE	S)			CEICRAS	SA, CKLAB	ILAW AND	ESHEC B	-7	
		Jan	Feb	Par	AFI	Bay	Jnn	Jul	Aug	Ser	Cct	No₹	Гес	šrrual
1977	ę Q	0.36 0.0	1.36 0.008	1.31 0.9	2.87 0.595	5.28 2.956	1.95	1.07 0.001	1.49 0.0	1.08 0.0	1.21 0.0	1.03	U.13 U.0	23.14 3.591
VA AF	P Q	0.86 0.133	1.14 0.168	2.06 0.325	3.00 0.663	4.82 1.273	2.83 0.638	2.41 0.272	2.48 0.226	3.68 0.539	2.99 G. 696	1.36 0.273	0.93 0.060	26.57 5.205
	ÀNN	Maxi	 aus		n/br) AKC		aximom	Volume :	for Sele	cted Time	Interva	1		
		Discb Dat∈		Date Vo	: 2 ol. Date	Vol.			12 Bonı ∂at∈ Vo		Day Vcl.			8 Cays at∈ Vol.
1977		5-19	2.555	5-19 1.	016 5-19	1.085	5-19	1.245	-19 1.	262 5 -1 9	1.262	5-19	2.312 5	19 2.543
						MAXIEOMS	FOF PE	FIOD CF	FECCED					
		5-24	5.359	5-24 2.	185 5-24	2.311	5-24	2.320 5	-24 2-	320 10-30	2-362	11-10	2-966 5	24 3.705

Watershed Conditions: Formerly cultivated from about 1907 until about 1935 when the land use was changed to grature because of severe erosion. Bange condition class during the year was room to fair with moderate overgrazing. The vegetative cover in December 1977 based on 25 uniformly spaced clipped samples, averaged 552 rounds of standing grass, 316 rounds of weeds, and 1,046 rounds get acre of mulch. Prior to Cot. 1970, this watershed was within the same pasture area as Watershed & 8.8, however, it was enclosed by separate fence in order to implement an improved

Same pastnre area as Watershed E-8, however, it was enclosed by separate rence in order to implement an implement and implement

1977	7 D.	AILY PFEC	IFIT PTIC N	(INCHES)			CHIC	RASEA, CR	IABCHA WA	TEBSEEC E	-7	
Lay	Jan	Peb	Bar	Apr	Pay	Jnr	Jul	à u g	Sep	Cct	Bc∀	Lec
1	0.0	0.0	0.0	0.0	0.21	0.0	0.56	0.06	0.0	0-0	0.0	0.0
2 3	0.0	0.03	0.23	0.0	0-34	0.0	0.0	0.0	0.0	0.0	0.02	0.0
4	0.0	0.02	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.05	0.0
5	0.0	0.0	0.0	0.0	0.03 0.53	0.0	0.0	0.0	0.0 0.16	0.46	0.0	0.04
-	0.0	0.0	0.0	0.0	0.23	0.0	0.3	0.0	9.10	0.0	0.0	0.0
6	0.05	C.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.02	0.0
8	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0
ç	0.11	0-0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.16	0.0
10	0.0	0.0	6.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	1.13	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0
12	0.08	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.30	0.0	0.0	0.0
13	0.05	0.0	0.0	0.06	0.52	0.0	0.0	0.0	0.58	0.0	0.0	0.0
14	0.0	0-0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.39	0.37	0.0	0.0	0.0	6.0	0.0	0.0	0.0
16	6.0	0.0	0.0	0.12	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0-0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
19	0.0	0-0	0.0	0.0	2.77	0.0	0.0	0.53	0-0	0.0	0.0	0.0
20	0.0	0.0	0.0	2.07	1.84	0.0	0.0	0.0	0.0	0.0	0.6	0.0
21	0.0	0.0	0.0	0.0	0.02	0.0	0.07	0.0	6.0	0.0	0.0	0.0
22	0.02	0.04	6.0	0.04	0.0	0.22	0.0	0.0	0.0	0.42	0.0	0.0
23	0.02	0.0	0.0	0.0	0.0	0-0	0-04	0.0	0.0	0.26	0.0	0.0
24	0.6	0-0	0.0	0.0	0.0	0.14	0.0	0.12	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0-0
26	0.0	0.12	0.31	0.0	0. 64	0.14	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.02	0.49	0.0	0.43	0.0	0.34	0.01	0.0	0-0	0.0	0-0
28	0.0	0.0	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.08	0.0
29	0.0		0 - 0	0.17	0.0	0.0	0,0€	0.77	0.04	0.0	0.0	0.09
30	0.0		0.0	0.C	C.O	0.0	0.0	0.0	0.0	0.05	0.0	0.0
31	0.0		0.0		0.49		0.0	0.0		0.0		0.0
ICIAL	C.36	1.36	1.31	2.87	9.28	1.95	1.07	1.49	1.06	1.21	1.63	0.13
STA AV	0.88	1.14	2.06	3.00	4.82	2.83	2.41	2.48	3.68	2.99	1.36	0.93

Gaging: Thiesser weighted values from two gages, Nos. 193 and 194. Station Averages: 12 yr beginning 1966.

Cooperative Research Project of USDA and Cklahoma Agricultural Experiment Station

69.044- 1

197	7	MEAN DAII	Y DISCHAR	GE (CFS)			CBICI	KASEA, CRI	LABCEP WAT	EESPEE F	.7	
Day	Jan	P∈b	Bar	9 F E	g a y	Jur	Jol	Ang	S€p	Cct	R C ₹	[ec
1	0.0	C.O	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.C	0.0
2		0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
3		0.6		0.0	0.154		ũ . 0	9-0	0.0	0.0	0.0	0.0
4	0.0	0.0		0.0	r 0.0		0.C		0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.112	0.0	0.0	0.0	0.0	0.0	0.0	0.0
€		C - O	0.0	0.0	0.0 I	0.0		0.0	0.0	0.0	0.0	0.0
7	0.3	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
٤	0.0	0.0	0.0	0.0	0.0	0.C		0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.006		6.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0	0.0
13	0.0	0.0	0.3	0.0	0.017	0.0	0.0	6.5	0.0	0.0	0.0	0.0
14	0.0	0.0	C - 0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0-0
15	0.0	0.0	0.0	0.0	300-0	0-0	0.0	0.0	0.0	0.0	0.0	0.0
1€	0.0	0.0	0.7	0.0	0.062	0.0		0.0	0.0	0.6	0.0	C.0
17	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
18	0.0	0.0		0-0	0.0	0.0	0.0	0.0	0.0	0 - C	0.0	0.0
19	0.3	0.0	0.0	0.0	1.017	0.0	0.0	0.0	0.0	0.0	0.0	0-0
2 C	0.0	U.0	0.0	0.47€	0.84€	0.0	0.5	3.0	0.0	C-0	0.0	0-0
21	0.0	ù.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C-0
25	0.0	0.0	0.0	0.0	0.0	0.064	0.0	C-0	0.0	0.0	0.0	6-0
26	0.0	0.0	0.0	0.0	0.103	0.0	0.0	C - C	0.0	0.0	0.0	6-0
27		0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0-0	0-0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.3		0.0		0.002		0.0	0.0		0.0		0.0
AK	0.0	0.0002		0.0160	0.0769			0.0	0.0	0.0	0.0	0.0
CHES		0.008	0.3	0.555	2.558	0.029	0.001		0.0		0.0	0.0
AAV	0.133	0.108	0.325	0.663	1.273	0.638	0.272	0.22€	0.539	0.896	0.273	0.0

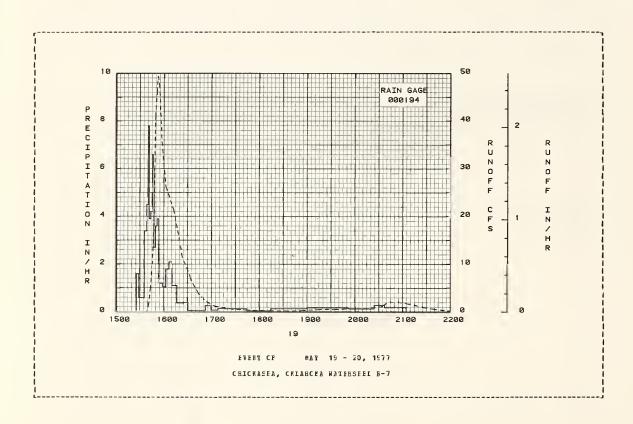
Conversion Factor: CPS to 15/DAY, multiply by 1.240515.

7	SELECTED BUR	OFF EVENT				CEICKAS	EF, CKLA	BCBA WATER	SEEL B-/	
ANTEC	FDENT CCNDI				IBFAII			FORCE		
Eate	Bainfall	Enncff			Intersity					Acc.
ac-Day	(irches)	(inches)				(inches)	ec-fay	or cay	(cfs)	(inches)
			F V F	FI CE	BAY 19 -	20, 1577				
	EG 000194			FG 000						
5-19	0.0	0.0	5-19	1525	0.0	0.0	5-19	1537	0.0	0.0
				1528	1.6000	0.08		15 39	0.342	0.0003
				1535	0.6000	0.15		1541	2.058	0.0024
				1538	3.4000	0.32		1543	5.543	6.0085
				1540	4.5000	0.47		1545	088.2	0.0222
	D CCMEITICNS									
	dition class			1541	7.8000	0.60		1547	16.480	0.0466
	was poor, wi	t b		1543	3.9000	0.73		1548	30.650	0.0678
A ELE OA	ergrazing.			1545	4.2000	0.87		1545	41.020	0.0586
				1546	6.6000	0.56		1551	46.930	0.1744
				1547	€.0000	1.0€		1552	45.440	0.2159
				1549	2.7000	1.17		1554	46.930	6-2585
				1551	3.6000	1.25		1557	35.60C	0.4055
				1553	3.5000	1.42		1602	26.170	0.5385
				1558	1.2000	1.52		1612	21.360	0.7432
				1602	1.0500	1.55		1619	15.240	0.€53€
				1806	1.8000	1.71		1623	11.340	0.8554
				1610	2.1000	1.85		1632	7.718	0.5732
				161€	1.1000	1.96		1634	€.575	0.5855
				1624	0.3750	2.01		1644	3.665	1.025€
				1630	0.4000	2.05		1654	2.056	1.0543
				1652	0.0545	2.07		1704	1.155	1.0881
				1659	0.2571	2.10		1727	0.549	1.0850
				1708	0.0867	2.11		1748	0.342	1.0521
				17.16	0.1500	2.13		1613	0.236	1.0993
				1744	0.1286	2.15		1837	0.152	1.1037
				1614	0.0400	2.21		1853	0.28€	1.1070
				1859	0.1333	2.31		1518	0.545	1.1160
				1551	0.1731	2.4€		1939	0.545	1.1255
				2024	0.1273	2.53		1549	0.675	1.1312
				2037	0.2765	2.59		1958	0.721	1.1366

Conversion Eactor: CFS to IM/BE, multiply by 0.051680.

1977	SELECTED FUN	OFF EVENT				CHICKAS	SA, CRIAI	COA WATER	SEEC B-7	
ABO	PECEDENT CORDI	TICKS		FAI	NEALL			RUNCE	F	
Dad Bo-I		Functf (inches)			Intersity (in/br)		Eat∈ &c-Eay	Time of Cay	Fate (cfs)	Acc. (inches)
			EVENT CE	MAY	19 - 20,	1977 (CCN	inuer)			
			5-19	2104	0.1778	2.67	5-19	20 17	0.721	1. 14 84
			3 ,,	2101		2007	• •	2021	0.922	1.1512
								2033	1.094	1.1617
								2039	1.802	1.1691
								2044	2.058	1.1775
								2054	2.058	1. 1952
								2110	1.567	1.2202
								2126	0.922	1.2373
								2143	0.473	1.2475
								2212	0.192	1.2556
								2237	0.091	1.2585
								2322	0.032	1.2612
								2400	0.011	1.2619
							5-20	122	0.002	1.2624
								237	0.0	1.2625
								420	0.0	1.2625

Conversion Eactor: CES to IE/EF, multiply by 3.051680.



69.044- 3

LCCATICE: Grady Courty, Cklaboma; NR 1/4 sec. 12, T. 7 W., F. 6 W., about 6-1/2 miles east and 2-1/2 miles north of Chickasha, Cklaboma; Washita Fiver Basir. Iat. 35 deg. 05 min. 03 sec. N.; Long. 97 deg. 47 mir. 11 sec. W.

ABIA: 27.55 acres

EC	BIBL	Y PEFCIP	ITATICE	AND FUNCI	P (IRCPE	S)			CEICKYCES	, CRIABO	TEA ASS	FSFFC F-	E	
		Jan	F∈b	Zar	Apr	Bay	Jun	Jul	₽ 119	Sep	Oct	BC ₹	₽ ∈ c	1scaa4
1977	E Q	0.37 0.0	1.40	1.45 0.011	2.76 0.382	9.19 3.047	1.66 0.117	1.12 0.023	1.46 0.0	1.19	1.25 0.0	0.98 0.0	G-11 G-0	23.16 3.654
STA AV	P Q	0.90	1.20 0.064	2.08 0.234	2.59 0.442	4.66 1.088	2.77 0.487	2.44 0.190	2.40 0.130	3.71 6.354	2.59 0.473	1.39 0.168		28.7D 3.752
	ABB	OAL PAXI Caxi		BAFGF ii	/hr) ARC		axisus	Volus∈ f	CFF inch	ed line	 Int∈r v a	1		
		Eiscb Dat∈		1 Bour Date Vol					12 Hcnrs at∈ Vcl.		Day Vol.	2 Eay Eat∈ V		€ Cays ate Vcl.
1977		5-20	2.837	5-19 1.3	0€ 5-19	1.264	5-19	1.376 5	-19 1.39	1 5-19	1.391	5-19 2	.563 5-	-19 2.744
						EARIFOES	FOB FF	FIOE CF	FECCED					
		5-24 1973		5-24 2.1 1973	198 5-24	2.304	5-24 1973		-24 2.32 973	7 5-24 1973	2.330	5-19 2 1977		-24 3.326

Watershed Conditions: Pormerly cultivated from about 1507 until about 1935, when land use was changed to resture because of sewere erosion. Fange condition class during the year was poor with moderate overgrazing. The wegetative cover in Dec. 1577, based on 25 uniformly spaced clipped samples, average 589 pounds of standing grass, 346 pounds of weeds, and 647 pounds per acre of mulch.

Bars and General Description: Bydrologic fata for Experimental Agricultural Watersheds in the United States, 1566, USEA Miscs. Pub. 1226, pages 65, 45-1 and 65,45-2.

Frecipitation: Feocrds began July 1, 1966. Thiessen weighted values from two rain gages, 197 and 158. STA AV values tased on 12 yr beginning 1966.

Enuncif: Records team July 1, 1566. STA AV values tased or 12 yr beginning 1966.

Long-Term Frecipitation: Rational Weather Service records at Chicksha, Cklahoma.

1977	Ē.	AILY PEEC	IFITATICN	(INCEES)			CBlC	KASEA, CK	TABCEA WA	TEFSFFC F	-8	
Cay	Jan	P€b	Bar	≯pr	ľay	Jnr	Jtl	Ang	S€F	Cct	N C V	Eec
1	0.0	0.0	0.0	0~0	0.18	0.0	0.50	0.0€	0.0	0.0	D.0	0.0
2	0.0	0.93	0 - 25	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.03	0.0
3	0.0	0.02	0.0	0.0	0.57	0.0	0.0	0.0	C-0	0-0	0.03	0.0
	0.0	0.0	0.0	0 - 0	0.01	0.0	0.0	0.0	0 - 0	0.46	0.0	0.03
5	0.0	0.0	3.0	0.0	0.4€	0.0	0.3	0.0	0.18	0 - 0	0.0	0.0
6	0.04	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.02	0.0
8	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0 - 0	0.0	0.0	0.67	0 - 0
ç	0.12	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0	0.0	0.0	0.15	0.0
10	0.0	0.0	0.34	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
11	0.0	1.15	0.0	0.0	0.0	0.0	0.0	0.0	C.0	0.0	0.G	0.0
12	0.09	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.26	0.0	0.0	0.0
13	0.04	0.0	0.0	0.05	0.54	0.0	0.0	0.0	6.72	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.41	0.40	0.0	0 ~ 0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.12	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.05	0.0	0.0	0.0	G . G	0.0	0.0	0.0	0.0	0-0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	2-90	0 - 0	0.0	0.50	0.0	0.0	0.0	0.0
20	0 - G	0.0	0.0	1.95	1.99	0.0	0.0	0.0	0 - 0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.65	0.0	0.09	G - G	0.0	0.0	0.0	0.0
22	0.02	0.05	0.0	0.07	0.0	0.20	0.0	0.0	0.0	0.45	0.0	0.0
23	0.02	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.29	0.0	D - 0
24	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.12	0.0	0.0	0.0	0 - 0
25	0.0	0.0	0.0	0.0	0.0	0.66	0.5	0.0	0.0	0.0	C.0	0.0
26	0.0	0.10	0.37	0.0	0.63	0.12	0.0	0.0	0.0	0.0	D - G	0.C
27	0.0	0.05	0.44	0.0	0 - 41	0.0	0.44	0.01	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.C	0.08	0.0
25	0.0		0.0	0.16	0.0	0.0	0.0€	0.77	E0.0	0.0	0.0	0.08
30	0.0		0.0	0.0	0.0	0 - C	0.0	0.0	0.0	0.05	0.0	0.0
31	0.0		0.0		0.39		0.0	0.0		0.0		0.0
TCTAL	0.37	1.40	1.45	2.76	9.19	1.68	1.12	1.46	1.19	1.25	0.58	0.11
STA AV	0.90	1.20	2.08	2.55	4.88	2.77	2.44	2.40	3.71	2.55	1.39	0.94

Gaging: Thiesser weighted values from two rain gages, 197 and 198. Station Averages: 12 yr beginning 1966.

Cooperative Research Project of DSDA and Oklahoma Acricultural Experiment Station

197	7	MEAN DAIL	Y CISCHAR	GE (CFS)			CEIC	KASEA, CK	LAROSA SA	TEFSEEC F	-ε	
Day	Jan	F∈b	gar.	Врг	ľay	Jun	Jul	Auç	Sep	Cct	Nev	£ec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.213	0.0	0.0	D. 0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	G _ C	0.0	G. C	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.128	0.0	0.0	0.0	U.Û	0.0	0.0	C-0
4	0.0	0.0	0.0	0.0	P 0.0		0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	3.0	0.126	0.0	9.9	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0 T	0.0	03	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
ç	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.012	6.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
11	0.0	0.011	0.0 T	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0-0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.055	0.0	0.0	0.0	0.074	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	U. 0	0.0	3.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	3.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	1.609	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.3	9.0	0.0	0.440	1.353	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	9.0	0.003	0.004	0.0	0.0	0.0	0.0	0.5	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	8.041	0.0	0.0	0.3	0.0	0.0	0.3
26	0.0	0.0	0.0	0.0	0.142	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.067	0.0	0.013	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.095	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0 T	0.0	0.0	0 - 0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
31	0.0		0.0		0.001		0.0	0.0		0.0		0.0
EAN	0.0	0.0034	0.0004	0.0148	0.1138	0.0045	0.0005	0.0	0.0025	0.0	0.0	0.0
RCHES	0.0	0.009	0.011	0.382	3.047	0.117	0.023	0.0	0.0€4	0 - C	0.0	0.0
TA AV	0.066	0.)64	0.234	0.442	1.088	0.487	0.190	0.130	0.354	0.473	0.188	0.037

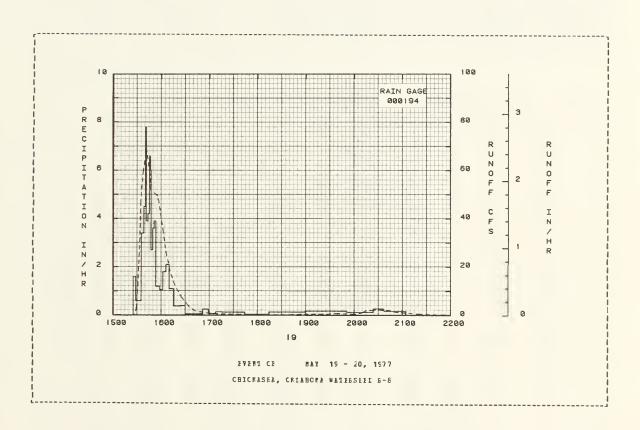
Ctation Averages: 12 yr beginning 1988. Conversion Factor: CPS to IB/DAY, multiply by 0.863944.

1977 SELECTED	RONOFF EVENT					EA, CKIA	HCHA WATER	SEED F-E	
ARTFCFDERT C				INEALL Intersity				F	
Pat∈ Fainf Mo-Day irch	all Funcff es) (inches)	Dat∈ ≅o-Day	Ti∓∈ of Lay	Intersity (in/br)	Acc. (inches)	fate #c-fay	Time of Day		Acc. (inches)
		EVE	RT CF	MAY 19 -	20, 1977				
FG 0001	94		FG 000	194					
5-19 0.0	0.0	5 -1 9		0.0		5-19	1525	0.0	C.0
			1528	1.6000	80.0		1527	0.341	0.0002
			1535	0.6000	0.15				0.0022
			1538		0.32			12.330	0.0115
DISTROPTS OF THE	ana.		1540	4.5000	0.47		1533	30.420	0.0371
WATEFSHED CONDIT			45.04	7. E000 3.9000			4536	0.000	0.000
Bange condition c			1541	7. 8000	0.60		1534	46.430	0.0802
the year was poor			1343		0.73		1537	59.520	0.1555
moderate cvergraz	ing.		1545	4.2000	0.67		1541	ES. 140	0.3099
			1546	6.8000	0.58		1545	59.520	0.4643
			1547	6.0000	1.08		1547	51.430	0.5369
			1549	2.7000	1.17		1555	49.520	U.7731
			1551	3.6003	1.25		1557	46.430	0.8307
			1553	3.5000	1.42		1602	35.300	0.9533
			1558	1.2000	1.52		1606	25.990	1.0268
			1602	1.0500	1.59		1611	16.360	1.0934
			1806	1.8000	1.71		1617	12.330	1.1488
			1610	2.1000	1.65		1625	7.688	1.1987
			1618	1.1000	1.98		1635	3.40€	1.2255
			1624	0.3750	2.01			1.718	1.2422
			1630	9.4000	2.05		1702	0.715	1.25€1
			1652	0.0545	2.07		1735	0.341	1.2686
			1659	0.2571	2.10		1825	0.341	1.2746
			1708	0.0887	2.11		1845	0.341	1.277€
			1716	0.1500	2.13		1903	0.547	1.2826
			1744	0.1286	2.19		1922	0.547	1.2888
			1814	0.0400	2.21		1938	0.788	1.2951
			1859	0.1333	2.31		2002	0.547	1.3046
			1951	0.1731				4 450	1.3086
			2024	0.1273			2015	2.051	1.3134
			2037	0.2769			20 10 20 15 20 27	2.327	1.3252

Conversion factor: CPS to IN/HE, multiply by 0.035958.

977	SPIECTED FOR	OFF EVERT				CEICRAS	SHA, CRIA	BCEA WATER	SEFE F-8	
Ab?	IECEDERI CONDI	TICKS		F.A.	IBEALL			EURCE	F	
Eat ∃o-I		Funcff inches)	Date So-Day	lise of tay	Intersity (in/br)		Eat∈ Bc-Eay	Time of Day	Fat∈ (cfs)	Acc. (inches)
			EVENT CE	8 2 Y	19 - 20,	1977 CC	STIBUEC)			
			5 -1 9	2104	0.1778	2.67	5-19	2045 2050 2108 2125	2.051 1.417 0.920 0.472	1.3528 1.3560 1.3707 1.3778
								2155 2250 2400	0.213 0.067 0.020	1.3839 1.3885 1.3904
							5-20	125 255 415	0.005 0.002 0.0	1.3910 1.3912 1.3912
								545	0.0	1.3912

Conversion Factor: CFS to IN/FB, multiply by 0.035998.



69.045- 3

LCCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri Fiver Pasin. Iat. 41 deg. 05 min. 51 sec. W.; Iong. 95 deg. 38 min. 30 sec. W.

74.50 acres AFFA:

80	NTHI	Y PEFCIE	ITATION	ANT FUNOF	F (INCHF	٤)			IFFYKC	F, ICWA	WATEFSE	FC 1		
		Jan	F∈b	Mar	Apr	tay	Jun	Jul	λtg	Sep	Oct	K C ₩	D∈c	Arrual
1977	P Ç	0.45 0.168	0.13 0.183	4.55 0.283	1.51 0.181	6.04 2.542	1.93 0.158	4.37 0.230	9.21 1.784	7.56 1.720	3.60 0.527	7.37 0.520	0.53 0.323	44.27 9.039
STA AV	P C	0.56 0.352	0.63 0.521	1.59 9.513	3.21 0.415	4.74 1.148	4.69 1.509	3.50 0.402	4.34 0.580	4.46 0.631	2.77 0.364	1.53 0.314	0.86 0.266	32.87 7.034
	ANN	OAL EAXI		BABGE (in	/hr) AND				CFF (inch				KIFFVALE	
		Dische !		1 Hour Cat∈ Vol		Hours Vol.			12 Ecuis Cat∈ Vol.		Day Vol.	2 Day: Cat∈ V		Cays c Vol.
1977		5-27	1.968	5- 2 0.6	44 5- 2	0.794	5- B	0.846 5	- 6 0,64	9 5- 6	0.653	5-2 0	926 5-	2 2.218
						CAXIETES	FCF FF	FICE CF	FFCCFD					
		6+20 1967		6-20 3.1 1967	50 6-20 1967	4.160	6-20 1967		5-2 0 4.23	2 6-20 1967	4.24€	6-20 4 1967	.264 6- 196	4 5.979 7

Watershed Conditions: 93% contoured corn; 7% gullies and grassed waterways.

Mars: Topographic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USCA Risc.
Pub. 1194, page 71.1-5.

Frecipitation: Records began January 1, 1964. From rain gage 117 before April 4 and after Movember 9; Thiessen weighted average of gages 116, 117, 118 for remainder of year.

Funcif: Records began Pebruary 10, 1964. Jan. 1-Fet. 10, 1964 runoff estimated and included in averages.

Long-Term Frecipitation: National Weather Service records at Owaha, Webraska.

	197	7 D	AILY PEEC	IFITATICN	(INCHFS)			T	FFYKCF, I	CWA WAIFF	SHEC 1		
2	Day	Jan	P∈b	far	Apr	tay	Jur	J¢1	Aug	Sep	Cct	\ C \	€c
3	1												
4										1.27			
\$ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.													
6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.													
7 0.0 0.2 9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.17 0.01 0.07 8 0.0 0.2 9.0 0.0 0.176 9.0 0.0 0.0 0.0 0.0 0.111 0.0 2.15 0.10 9 0.0 0.2 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	9.0	0.7	0.9	9.0	9.0	0.0	0.09	0.9	0.0	0.0	0.04
B													
\$\begin{array}{cccccccccccccccccccccccccccccccccccc													
10 0.9 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0													
11													
12	10	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0
12	11	0.9	0.0	1,21	0.0	0.0	0.02	1.33	0.20	0.99	0.0	0.0	0.0
14 0.0 0.0 0.7 0.9 0.0 0.0 0.0 0.0 0.0 0.22 0.0 0.0 0.0 0.		0.0				0.0		0.9	0.0	0.20	0.0	0.0	0.0
15		9.9	0.0	0.0	0.0	9.0		0.0		0.9	0.0	0.0	0.0
15													
17	15	0.03	0.0	0.0	0.0	0.0	0.0	0.0	2.03	0.0	0.12	0.0	0.0
18	15	0.0	0.)	9.9	0.0	0.0	9.0	0.0	0.01	0.0	9.0	0.0	0.01
19 0.09 0.3 0.3 0.35 0.0 0.59 0.0 0.0 0.0 0.09 0.0 0.0 0.0 0.0 0.0 0	17	0.0	0.0	0.02	0.0	0.0	0.13	1.43	0.0		0.0	0.0	0.04
20 0.0 9.0 9.0 0.2 0.03 0.0 0.0 0.24 0.0 0.0 0.0 0.0 0.0 21 0.0 0.0 9.0 0.0 0.0 0.41 0.66 0.92 0.0 0.0 0.28 0.0 0.0 22 0.13 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0													
21 0.0 0.0 0.0 0.0 0.41 0.66 0.92 0.0 0.0 0.2B 0.0 0.0 0.0 22 0.13 0.3 0.3 0.0 0.0 0.0 0.0 0.													
22	20	0.0	9.0	9.9	0.23	0.03	0.0	0.0	0.24	0.0	0.0	0.0	0.0
23	21	0.0	0.0	9.0	0.0	0.41	0.66	0.92	0.0	0.0	0.2B	0.0	0.0
24 0.0 0.7 0.0 0.0 0.0 0.0 0.0 0.45 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.60	0.0	0.0
25 0.0 0.9 0.0 0.0 0.0 0.0 0.0 0.9 0.17 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0				0.9		0.0			0.0	2.84			0.0
26 0.05 0.7 0.16 0.0 1.33 0.0 0.0 0.38 0.0 0.0 0.0 0.0 0.0 27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.													
27 0.0 0.0 0.0 0.5 0.63 0.0 0.0 0.37 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25	0.0	0.9	0.0	0.0	0.0	0:0	0.9	0.17	0.9	0.0	0.0	0.0
27 0.0 0.0 0.0 0.5 0.63 0.0 0.0 0.37 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26	0.05	0.2	0.16	0.0	1. 23	0.0	0.0	0.38	0.0	0.0	0.0	9.0
28 0.0 0.0 2.11 0.0 0.0 0.73 9.24 0.21 0.0 0.0 0.0 0.0 0.0 29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.													
30 0.0 0.0 0.0 0.0 0.03 9.0 0.0 1.17 0.91 0.4B 0.01 0.0 31 0.0 0.0 0.0 0.77 0.01 0.21 0.21 0.45 0.13 4.55 1.51 6.04 1.53 4.37 5.21 7.56 3.60 2.37 0.53													
31 0.0 0.0 0.0 0.0 0.77 0.01 0.21 TCTAI 0.45 0.13 4.55 1.51 6.04 1.53 4.37 5.21 7.56 3.60 2.37 0.53													
TCTAL 0.45 0.13 4.55 1.51 6.04 1.93 4.37 9.21 7.56 3.60 2.37 0.53					0.0		9.0			0.91		0.01	
	31	0.0		0.0		0.0		0.0	0.77		0.01		0.21
	TCTAL	0.45	0.13	4.55	1.51	6.04	1.93	4.37	9.21		3.60		0.53
SIA AV 0.56 0.63 1.59 3.21 4.74 4.69 3.50 4.34 4.46 2.77 1.53 0.86	SIA AV	0.56	0.63	1.59	3-21	4.74	4.69	3.50	4.34	4.46	2.77	1.53	0.86

Air Temperature: Eee table for Watershed 3 (71.003). Gaging: From rain gage 117 before April 4 and after November 9: Thiessen weighted average from stations 116, 117, and 118 for remainder of year. Station Averages: 14 yr beginning 1964.

Cooperative Research Project of USDA and Iowa Agricultural and Home Economics Emperiment Station

197	7	SEAN DAIL	Y IISCHAF	GP (CFS)			11	EFARCE, I	CWA WATER	EEEC 1		
Day	Jan	F∈b	Bar	Apr	Бау	Jur	Jul	λug	Ser	Cct	BC∀	Γες
1	0.019	0.019	0.015	0.027	0.009	0.017	0.013	C.009	0.027	0.044	0.038	0.046
2	0.019	0.019	0.030	0.030	2.505	0.017	0.016	0.005	1.026	0.642	0.638	0.039
3	0.019	0.019	0.026	0.032	0.016	0.017	0.011	0.009	0.243	0.038	0.034	0.036
4	0.019	0.019	0.025	0.025	1.654	0.015	0.011	0.011	1.467	0.036	0.031	0.036
5	0.019	0.019	0.025	0.025	0.024	0.012	0.009	0.021	0.042	0.035	0.031	0.035
6	0.019	0.015	0.025	0.025	0.020	0.013	0.011	C.017	0.030	0.035	0.031	0.031
7	0.019	0.019	0.025	0.022	0.015	0.013	0.013	0.013	0.025	0.350	0.035	0.031
6	0.019	0.015	0.025	0.021	2.669	0.015	0.011	0.012	0.024	0.055	0.157	6.031
9	0.019	0.022	0.025	0.020	0.024	0.613	0.011	1.516	0.026	0.055	0.177	0.031
10	0.019	0.024	0.025	0.017	0.022	0.012	0.016	0.016	0.025	0.055	0.065	0.031
11	0.019	0.024	0.055	0.018	0.023	0.013	0.032	0.016	0.023	0.055	0.060	0.031
12	0.019	0.022	0.030	0.015	0.023	0.020	0.013	0.013	0.025	0.052	0.055	0.031
15	0.019	0.019	0.025	0.021	0.021	0.019	0.012	0.013	0.025	0.051	0.055	0.031
19	0.019	0.019	0.025	0.017	0.017	0.017	0.012	G.023	0.023	0.046	0.655	0.031
15	0.019	0.019	0.025	0.017	0.016	0.015	0.013	2.026	0.022	0.044	0.055	0.033
			0.025	0.017	0.018	0.015	0.011	0.029	0.017	0.042	0.055	0.035
16	0.019	0.019	0.025	0.017	0.018	0.015	0.011	0.029	0.017	0.042	0.050	0.035
17	0.019	0.022										
18	0.019	0.021	0.025	0.019	0.018	0.015	0.013	0.017	0.017	0.038	0.046	0.031
19	0.019	6.019	0.036	0.019	0.027	0.012	0.012	0.015	0.017	0.038	0.646	0.031
20	0.019	0.024	0.027	0.021	0.024	0.014	0.012	0.039	0.017	0.036	0.046	0.031
21	0.019	0.022	0.025	0.019	0.056	0.027	0.089	0.021	0.018	0.038	0.046	0.031
22	0.019	0.025	0.025	0.017	0.016	0.022	0.016	0.019	0.019	0.045	0.046	0.031
23	0.019	0.025	0.025	0.014	0.015	0.018	0.613	0.015	1.524	0.053	0.046	0.031
24	0.019	0.019	0.025	0.014	0.015	0.017	0.016	0.013	0.035	0.046	0.046	0.031
2.5	0.019	0.019	0.025	0.014	0.014	0.015	0.014	0.016	0.031	0.041	0.638	0.031
26	0.019	0.019	0.027	0.012	0.891	0.012	0.012	0.105	0.035	0.038	0.038	0.031
27	0.019	J.019	0.025	0.013	0.547	0.012	0.012	0.077	0.032	0.038	0.038	0.031
28	0.019	0.019	0.089	0.014	0.025	0.041	0.016	0.023	0.030	0.038	0.038	0.031
29	0.019	0.013	0.028	0.610	0.022	0.016	0.014	0.018	0.031	0.038	0.045	0.031
30	0.015		0.025	0.010	0.019	0.013	0.011	0.604	0.467	0.045	0.046	0.031
31	0.019		0.025	3.010	0.019	0.013	0.009	0.630	3.707	0.041	3.040	0.031
EEAI	0.0190	0.0205	0.0266	0.0169	0.2970	0.0164	0.0232	0.1601	0.1795	0.0532	0.0542	0.0326
INCHES	0.166	0.0293	0.0266	0.181	2.542	0.158	0.232	1.764	1.720	0.0532	0.0542	0.0326
STA AV	0.352	0.103	0.513	0.415	1.148	1.509	0.402	0.560	0.631	0.364	0.320	0.266
J.A E1	0.3.2	0.321	0.313	0.413	1.140	103	0.402	0.00	0.631	0.304	0.314	0.200

Ctation Averages: 14 yr begirning 1960. Conversion Factor: CFS to IN/LAY, multiply by 0.31949. LCCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Keg Creek, Missotri Fiver Fasin. Iat. 41 deg. 1) min. 10 sec. N.; Iong. 95 deg. 39 min. 00 sec. F.

AFEA: 82.90 acres

MC	RIGI	Y PRECIF	ITATICN	AND FUNCE	E INCEE	E)			1FE YNC I	, ICHA	WATERSH	E D 2		
		Jan	P∈b	tar	ytr	May	Jun	Jul	λtg	5∈ F	Cct	∦C.A	ľ∈c	lenal
1977	P Q	0.45	0.13 0.271	4.55 0.336	1.55 J.254	8.08 2.254	1.92 0.216	4.25 0.192		7.27 1.29€	3.84 0.437	2.20 0.527	0.53 0.378	43.94 7.456
STA AV	P Q	0.56 0.452	0.63 0.643	1.63 0.614	3.15 0.446	4.66 3.996	4.65 1.468	3.43 0.394		4.48 0.€31	2.79 0.417	1.52 0.365	0.66 0.372	32.65
	ANN	Mexi: Disch	uu arg∈	HAFGE (in		 5		vclum∈ fo	r Selecte	ed Time	Interva	 1		
		uat∈ :	Fat∈	Date Vcl	■ Date	Vol.			12 Bcurs at∈ Vcl.		Day Vcl.	tate V		0 Cays
1977		5- 8		Date Vcl 5-8 0.4	35 5 - 8	0.493	5- 6	vol. Da	ete Vcl. - 8 0.674	£at∈		Late V	cl. Da	

instricted Conditions: 92% contoured corn; 7% gullies and grassed waterways.

Mars: Topographic - Bydrologic Data for Pyperimental Agricultural Watersheds in the United States, 1964, USIA Misc.

Fub. 1154, page 71.2-5.

Frecipitation: Fecords began January 1, 1964. From rain gage 117 tefore April 4 and after November 9; Thiessen weighted average of gages 115, 116, and 118 for remainder of year.

Runoff: Fecords tegan February 3, 1964. Jan. 1-Feb. 3, 1964 runoff estimated and included in station averages.

Long-Term Precpitation: National Weather Service records at Omaha, Netraska.

1977	Ď.	AILY PERC	IFITATICN	(INCRES)			T	FEYNCE, I	GAA WATER	SBEC 2		
L Day	Jan	₽eb	Mar	Aŗī	Ħау	Jur	Jul	Aug	Ser	Cct	Nc∀	£∈c
(1 2 4 3 4 4 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.0 0.08 0.0 0.0 0.0	9.0 0.9 0.0 0.7 0.9	0.0 0.68 0.0 0.0	0.21 0.25 0.50 0.0	0.0 2.11 0.14 1.03 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.02 0.65	0.0 1.41 0.47 1.39	0.29 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.03 0.0 0.0 0.0 0.0
E E 7 E E E E E E E E E E E E E E E E E	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.02 0.0 1.91 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.17 0.02 0.0 2.42 0.0	0.0 0.0 0.11 0.02 0.0	0.09 1.45 0.0 0.0	0.0 0.01 2.01 0.17 0.0	0.0 0.07 0.10 0.0
1 11 1 12 1 13 1 14 1 15	0.03	0.0 0.0 0.0 0.0 0.0	1.21 0.02 0.0 0.0 0.0	0.0 0.20 0.0 0.0	0.0 0.0 0.0 0.0	0.01 0.38 0.01 0.0	1.32 0.0 0.0 0.0 0.0	0.23 0.0 0.0 0.15 1.97	0.0E 0.21 0.0 0.0	0.0 0.0 0.0 0.0 0.12	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
1 16 1 17 1 18 1 19	0.0 0.0 0.0 0.09 0.09	0.9 0.0 0.0 0.0	0.0 0.02 0.0 0.35 0.0	0.0 0.0 0.08 0.0 0.27	0.0 0.0 0.0 0.59 0.03	0.0 0.13 0.0 0.0	0.0 1.34 0.0 0.0	0.01 0.0 0.0 0.12 0.22	0.0 0.14 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.01 0.04 0.0 0.03 0.03
2 1 2 2 2 2 3 2 4 1 2 5	0.0 0.13 0.0 0.0	0.0 0.9 0.13 0.9	0.3 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.35 0.0 0.0 0.0	0.68 0.0 0.0 0.0	0.94 0.0 0.0 0.38	0.0 0.01 0.0 0.0 0.25	0.0 0.0 2.70 0.0	0.34 0.57 0.40 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 27 28 29 30	0.05 0.0 0.0 0.0 0.0	0.0 0.9 0.0	0.16 0.0 2.11 0.0 0.0	0.0 0.04 0.0 0.0	1.35 0.62 0.0 0.0 0.03	0.0 0.0 0.71 0.0	0.0 0.0 0.27 0.0 0.0	0.43 0.31 0.23 0.0 1.14 0.62	0.0 0.0 0.0 0.0 0.74	0.0 0.0 0.0 0.0 0.49 0.01	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.2
ICTAI STA AV	0.45 0.56	0.13 0.63	4.55 1.63	1.55 3.15	€.0E 4.66	1.52 4.65	4.25 3.43	9.17 4.27	7.27 4.48	3.64 2.79	2.20 1.52	0.53 0.86

Air Temperature: See table for Watershed 3 [71.003].
Gaging: Thiesser weighted awerage from stations 115, 116, and 110 for period of April 4 through Nowember 9, and
from station 117 for remainder of year.
Station Averages: 14 yr beginning 1964.

Cooperative Research Project of USEA and Iowa Agricultural and Home Economics Experiment Station

197	7	MEAN DAIL	Y DIECHAR	GE (CFS)			11	ENECE, I	CWA WATER	EEEC 2		
Day	Jan	Feb	Ear	ytı	Pay	Jer	J t l	109	set	Cct	B C V	[ec
1	0.033	0.033	0.033	0.036	0.025	0.028	0.022	0.018	0.926	0.044	0.047	0.047
2	0.023	0.033	0.334	0.039	1.287	0.027	0.020	0.016	1.198	0.041	0.044	0.047
3	1.133	0.033	0.141	9.049	0.947	9.027	0.019	0.015	0.135	0.037	0.045	0.047
q	0.033	0.033	0.033	0.043	1.398	0.025	0.018	0.018	1.068	0.039	0.045	0.047
5	0.033	0.033	0.033	0.033	0.043	0.025	0.018	0.026	0.045	9.038	0.047	0.047
E	0.033	0.033	0.033	0.033	0.032	0.021	0.018	9.024	0.035	0.037	0.047	0.044
7	0.033	0.033	0.033	0.031	0.029	0.021	0.020	0.020	0.038	0.160	0.047	0.047
8	0.033	0.033	0.033	0.030	2.364	0.020	0.018	0.020	0.034	0.053	0.137	0-047
ç	0.033	0.934	0.033	0.029	0.041	0.018	0.018	0.569	0.031	0.049	0.160	0.047
10	0.033	0.035	0.033	0.025	0.034	0.017	0.020	0.023	0.031	0.051	0.064	0.047
11	0.033	0.035	0.058	0.028	0.030	0.019	0-043	9.024	0.032	0.047	0.064	0.947
12	0.033	0.034	0.039	0.931	0.029	0.029	0.025	0.020	0.038	0.047	0.064	0.048
1.3	0.033	0.034	0.233	0.031	0.029	0.027	9.022	0.023	0.932	0.944	0.064	0.047
1.9	0.033	0.033	0.033	0.939	0.028	0.025	0.017	0.025	0.030	0.044	0.064	0.047
1.5	7.033	0.933	0.033	0.928	0.025	0.023	0.018	1.417	0.031	0.045	0.0€4	0.047
16	2.033	0.033	0.033	0.027	3.028	0.020	0.018	0.038	0.031	0.944	0.064	0.948
17	0.033	0.036	0.033	0-027	0.029	0.025	0.043	0.023	0.033	0.044	0.060	0.047
18	0.123	0.034	0.033	0.028	0.027	0.023	0.018	0.022	0.029	0.043	0.064	0.047
19	0.033	0.033	0.037	0.031	0.038	0.020	0.017	0.021	0.028	0.037	0.064	0.044
20	0.033	0.033	0.033	0.034	0.031	0.023	0.018	0.024	0.024	0.037	0.059	0.033
2.1	0.033	0.033	0.133	0.030	0.050	0.038	0.036	0.023	0.022	0.041	0.058	0.033
22	0.033	0.036	0.033	0.921	0.032	0.031	0.022	0.020	0.024	0.048	0.060	0.035
2.3	0.233	0.038	0.033	0.023	0.028	0.029	0.020	0.021	1.121	0.057	0.058	0.039
24	0.033	0.033	0.033	0.025	0.026	0.029	0.025	0.020	0.038	0.047	0.055	0.035
25	0.033	0.033	0.033	0.025	0-022	0.027	0.021	0.025	0.038	0.043	0.052	0.033
2 €	0.033	0.033	0.035	0.025	1.030	0.023	0.019	0.063	0.033	3.042	0.047	0.033
27	0.033	0.033	0.233	0.025	0.937	0.024	0.019	0.023	0.031	0.047	0.047	0.033
28	0.033	0.033	0.126	0.025	0.031	0.040	0.023	0.024	0.031	0.047	0.047	3.0.0
29	0.033		0.041	0.025	0.029	0.026	0.019	0.021	0.031	0.047	0.048	0.039
30	9.033		0.033	0.025	0.032	0.022	0.018	0.565	0.195	0.051	0.049	0.039
31	0.033		0.033		0.030		0.017	0.441		0.048		0.039
EEAN	0.0330	0.0337	C.0377	0.0294	0.2529	0.0250	0.0215	0.1170	0.1503	0.0490	0.0612	0.0425
INC BES	0.294	0.271	0.336	0.254	2.254	0.216	0.192	1.043	1.298	0.437	0.527	0.378
STA AV	0.452	0.643	0.614	0.446	0.996	1.468	0.394	0.535	0.631	0.417	0.365	0.372

Statich Averages: 14 yr beginning 1964. Conversion Factor: CPS to IN/DAY, multiply by 0.26746. LCCATION: Pottawattamie County, Iowa; approximately 3 miles sonthwest of Treynor; Silver Creek, West Hishnatctna Biver, Missonri Biver Basin. Iat. 41 deg. 12 min. 36 sec. N.; Iong. 95 deg. 38 min. 05 sec. N.

107.30 acres AFFA:

80	NTHL	PFFCIP	ITATICE	AND FUNCE	F (INCER	5)			TFEYEC	F, ICWA	WATERSE	EC 3		
		Jan	P∈b	*ar	Aŗr	ба у	Jun	Jul	λng	Sep	Oct	No ▼	£€¢	Arnual
1977	Ę Q	0.4€ 9.186	9.10 0.172	3.53 0.239	1.51 0.197	7.77 0.883	1.49 0.63€	3.88 0.365	7.88 0.303	5.44 0.622	3.75 0.781	1.88 1.023	0.50 0.644	36.19 6.052
VA AP	F Q	0.58 0.355	0.59 0.534	1.51 0.596	3.13 3.489	4.81 0.691	4.78 0.880	3.29 0.551	3.71 9.378	4.34 0.365	2.78 0.422	1.43 0.409	0.83 0.405	31.77 €.075
	ANNU	AL MAKI	HUN UISC	HAFGE (in	/hr) AKC	BARISOS	VCIUEF	S CF FUNC	FF (inch	es) FOR	SELECTE	C TIEE I	BIEFVALS	
		Mari Disch	arge	1 Hour		Hours	6 Hc	ers 1	r Select	1	Uay	2 Cay		Cays
1977			arge Fate	1 Hour Cate Vcl	. 0at∈	Hours Vol.	6 Hc Cate	trs 1	12 Hcmrs	1 Cate	θaγ Vol.	2 Cay Cate V		€ Vol.
1977		Disch Date	arge Fate	Cat∈ Vcl	. 0ate	Wol. 0.090	6 Hc Cate 5- 8	trs 1	12 Hcmrs ate Vol.	1 Cate	θaγ Vol.	2 Cay Cate V	c1. Cat	€ Vol.

Hatershed Conditions: 86% corp, conservation tillage; 19% grassed waterway, reads and farestead.

Mags: Topographic - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USIA Misc.

Fub. 1194, page 71.3-4.

Frecipitation: Fecords began January 1, 1960. Arithmetic average of rain gages 113 and 110 tefore Agril 4 and after November 9; Thiessen weighted average of gages 112, 113 and 114 for revainder of year.

Runoféf: Fecords began January 2, 1964. January 1, 1964 runoff estimated and included in station averages.

Long-Term Precipitation: National Weather Service records at Omaha, Ketraska.

19	77 UAILY	AIR TEMPE	FATURE (D	EGFEES F)				FFYNCE,	CWA WATER	SBEC 3	·]
tay	Jan	Peb	Mar	Arr	May	Jur	Jul	Ang	Ser	Cct	Nev	Eec
I	max mir	max min	mar min	max min	max min	max win	max win	max min	wax win	max min	wax win	max min
1 1 2 3 4 5 5	15 -7	28 2	38 13	54 39	81 60	84 58	90 59	\$1 69	78 63	59 50	52 46	36 26
	19 11	37 10	40 30	49 31	84 61	83 54	84 61	67 63	75 65	62 44	60 41	33 22
	25 18	44 19	43 30	40 30	74 62	85 62	102 76	54 63	75 65	65 36	63 44	26 24
	23 11	39 19	52 26	37 30	76 57	100 71	100 72	66 67	80 68	62 47	63 38	30 24
	17 0	28 9	42 21	44 26	75 54	100 72	102 72	60 69	81 59	61 44	56 42	28 4
	25 3	16 5	49 22	61 27	74 60	80 62	101 75	82 62	88 61	5€ 40	57 52	12 -2
	24 -1	26 2	68 27	73 44	76 54	87 57	92 68	90 68	86 63	5€ 45	£1 56	20 E
	27 -11	45 12	78 36	73 37	72 56	95 62	91 70	86 75	87 67	47 40	£0 41	20 -2
	-1 -15	52 26	68 41	86 45	72 54	80 55	96 57	84 66	74 52	62 32	40 30	3 -6
	3 -9	60 29	66 44	84 53	66 45	101 62	88 61	76 59	79 51	55 40	42 26	16 0
11	21 -11	5€ 29	57 43	82 57	75 46	90 74	86 65	77 54	76 52	50 46	40 25	36 8
12	17 -9	44 28	50 38	80 54	62 53	73 67	88 70	79 55	73 65	60 31	41 21	42 32
13	33 17	50 22	50 37	64 50	64 53	72 59	96 72	82 61	73 61	67 35	54 28	51 30
14	31 15	31 13	71 39	79 53	88 62	83 63	100 72	72 60	76 51	70 41	60 31	50 26
15	19 -11	28 6	52 37	80 54	90 67	90 64	91 71	90 60	71 50	53 38	57 40	53 34
16	3 +20	32 7	58 30	79 58	88 66	90 70	99 72	\$1 61	78 59	6.1 31	52 36	55 40 1
17	7 +8	58 26	61 39	78 58	84 61	60 67	85 70	80 56	82 66	66 40	48 33	40 32 1
18	12 -6	57 27	49 31	76 55	89 65	83 62	98 77	70 52	77 58	62 39	44 28	36 24 1
19	35 3	44 22	33 29	70 54	75 60	85 60	95 71	85 69	69 49	70 39	58 40	30 22 1
20	33 15	47 24	36 26	68 48	76 58	85 61	96 74	79 66	72 46	76 40	63 20	24 12 1
21	32 11	70 22	38 27	€1 44	74 62	68 61	79 70	78 65	80 €3	76 53	28 14	23 8
22	27 11	60 32	57 24	65 44	74 54	60 62	85 70	77 55	76 53	54 45	41 21	40 15
23	33 19	58 27	54 29	76 45	64 57	86 68	89 67	81 60	79 58	47 43	40 23	35 15
24	36 27	45 26	68 34	€2 40	88 62	90 69	94 72	77 52	76 48	52 47	29 1€	40 14
25	33 16	44 30	59 40	66 40	88 64	90 62	83 73	75 61	75 53	65 45	15 €	20 8
2 E 27 28 29 30 31	35 11 38 -2 2 -13 15 -7 12 1 23 -3	35 29 40 22 40 21	65 49 66 47 55 42 56 42 42 30 48 27	80 44 88 56 72 50 72 40 66 53	90 65 79 63 85 61 64 64 75 64 76 58	93 65 95 69 77 64 92 60 78 60	80 56 82 56 85 64 91 65 96 65 80 63	93 74 87 68 77 61 61 55 87 66 84 65	82 50 73 4€ 74 48 79 54 66 €0	72 44 55 47 67 54 67 52 60 54 65 50	24 2 28 20 40 16 47 26 40 28	23 9 24 -2 35 16 35 18 27 14 26 6
AV.	22 2	43 20	53 33	69 45	€0 59	86 63	\$1 €€	83 62	77 57	62 43	47 30	32 16
MEAN	11.9	31.5	43.3	57.1	€9.€	74.5	75.7	72.6	67-0	52-4	38.3	23.6
SIA AV	29 10	36 17	47 26	62 39	74 52	82 60	87 €5	83 62	74 52	64 42	46 27	32 18

Station Averages: 14 yr beginning 1964. Notes: Data are taken from hygrothermograph charts. Recording period is from 0001 to 2400 for the date shown.

Cooperative Research Project of USDA and Iowa Agricultural and Home Economics Experiment Station

r I 1977	C	AILY PSEC	IFITATION	(INCHES)			1	SEYNCE, I	WA WATER	BEC 3		
Cay	Jan	P∈b	far	àpr	₹ay	Jur	Jul	ànç	Set	Cct	BCV	[ec
1 2 3 9	0.0 0.07 0.0 0.09 0.09	0.0 0.0 0.0 0.0	0.0 0.69 0.0 0.0	0.27 0.30 0.39 0.0	0.0 1.71 0.12 1.28 0.0	0.0 9.0 0.0 0.0	0.9 0.9 0.0 0.0	0.0 0.0 0.0 0.04 0.62	0.01 0.99 0.42 1.30 0.0	0.22 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.01 0.0 0.0 0.0 0.0
6 7 6 6	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0	0.0 0.0 0.0 0.0	0.22 0.0 1.67 0.0	0.0 3.0 0.0 0.0	0.0 0.0 0.0 0.0	0.19 0.02 0.0 2.03 0.01	0.0 0.06 0.03 0.03	0.06 1.71 0.0 0.0 0.05	0.0 0.03 1.65 0.15	0.06 0.07 0.0
1 11 12 13 19	0.0 0.0 0.0 0.3 0.02	0.3 0.0 0.0 0.0	1.39 0.02 0.0 0.0	0.0 0.15 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.28 0.09 0.0	1.06 0.0 0.0 0.0 0.0	0.23 0.0 0.0 0.0 1.67	0.08 0.15 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
1 16 17 18 19 20	0.0 0.0 0.0 0.11 0.0	0.0 0.0 0.0 0.0	0.0 0.03 0.0 0.28 0.0	0.92 0.9 0.14 0.0 0.29	0.01 0.0 0.0 0.54 0.02	0.0 0.10 0.0 0.0	0.0 1.17 0.0 0.0	0.0 0.0 0.0 0.0 0.10	0.0 0.10 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.08 0.04 0.0 0.03
1 21 22 23 24 25	0.0 0.12 0.0 0.0	0.0 0.0 0.10 0.0	0.02 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.35 0.0 0.0 0.0	0.64 3.0 0.0 0.0	0.77 0.0 0.J 0.19 0.01	0.0 0.02 0.0 0.0 0.34	0.0 0.0 2.06 0.0	0.16 0.55 0.39 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
1 26 1 27 2 28 1 29 3 30	0.05 0.0 0.0 0.0 0.0	0.0 3.3 0.0	0.12 0.0 0.58 0.0 0.0	0.0 0.05 0.0 0.0	1.23 0.43 0.0 0.0 0.02	0.0 0.43 0.0 0.0	0.0 0.62 0.0 0.0	0.48 0.36 0.17 0.0 0.82 0.75	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.49 0.02	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
TCTAI STA AV	0.46 0.58	0.10 0.59	3.53 1.51	1.51 3.13	7.77 q.81	1.49 4.78	3.66 3.29	7.68 3.71.	5.44 4.34	3.75 2.78	1.68 1.43	0.50 0.63

Gaging: Arithmetic average from stations 113 and 114 before Arril 9 and after November 5; Thiesser weighted average from rain gages 112, 113, ard 119 for remainder of year. Station Averages: 14 yr beginning 1964.

197	77	SEAD DAIL	I LISCHAE	GE (CFS)			II	FIRCE, 10	WA WATERS	BEC 3		
Day	Jan	P∈b	āar	Apr	#ay	Jug	Jul	109	S€p	Cct	₿C♥	Ĩ€C
1	0.027	0.027	0.028	0.035	0.022	0.101	0.068	0.037	0.047	0.106	0.131	0.122
2	0.027	0.027	0.043	0.016	0.054	0.101	0.067	0.034	0.065	0.100	0.131	0.151
2	0.027	0.027	0.037	0.039	0.034	0.101	0.061	0.034	0.071	0.056	0.131	0.131
q	0.027	0.027	0.029	0.036	0.220	0.100	0.061	0.037	0.151	0.094	0.131	0.151
5	0.027	0.027	0.028	0.033	0.045	0.100	0.064	0.047	0.054	0.054	0.131	0.131
6	0.027	0.027	0.029	0.033	0.049	0.101	0.061	0.039	0.094	0.094	0.131	0.131
7	0.027	0.027	0.030	0.032	0.044	0.101	0.062	0.031	0.059	0.135	0.131	0.151
٤	0.027	0.027	0.033	0.033	0.509	0.100	0.058	0.033	0.051	0.105	0.168	0.131
S	0.027	0.028	0.133	0.033	0.083	0.101	0.058	0.084	0.091	0.105	0.164	0.131
10	0.027	0.029	0.033	0.033	0.083	0.100	0.059	0.037	0.090	0.108	0.163	0.131
11	0.027	0.028	0.066	0.031	0.083	0.102	0.076	0.339	0.091	0.116	0.163	0.131
12	0.027	0.028	0.038	0.028	0.063	0.167	0.059	0.035	0.096	0.116	0.183	0.151
1.5	0.027	0.028	0.033	0.033	0.083	0.105	0.055	0.033	0.094	0.116	0.163	0.131
19	0.027	0.027	0.033	0.031	0.079	0.105	0.050	0.032	0.091	0.118	0.163	0.151
15	0.027	0.029	0.033	0.031	0.079	0.102	0.050	0.127	0.092	0.117	0.163	0.131
16	0.027	0.027	0.033	0.032	0.079	0.097	0.048	0.049	0.091	0.116	0.163	0.131
17	0.027	0.028	0.033	0.030	0.060	0.105	0.061	0.042	0.093	0.116	0.163	0.151
18	0.027	0.027	0.033	0.033	0.079	0.055	0.047	0.042	0.091	0.116	0.163	0.131
19	0.027	0.027	0.038	0.027	0.067	0.090	0.049	0.043	0.091	0.116	0.163	0.127
20	0.027	0.027	0.033	0.029	0.083	0.057	0.044	0.045	0.091	0.112	0.163	0.116
21	0.027	0.029	0.033	0.025	0.086	0.108	0.057	0.042	0.088	0.113	0.163	0.116
22	0.027	0.030	0.033	0.025	0.088	0.096	0.047	0.041	0.087	0-117	0.163	0.116
23	0.027	0.031	0.033	0.024	0.089	0.088	0.044	0.037	0.133	0.127	0.163	0.116
24	0.027	0.027	0.032	0.029	0.050	0.063	0.045	0.036	0.097	0.127	0.163	0.109
25	0.027	0.027	0.032	0.025	0.090	0.060	0.044	0.042	0.090	0.116	0.148	0.105
26	0.027	0.027	0.033	0.024	0.141	0.079	0.043	0.043	0.092	0.116	0.147	0.105
27	0.027	0.027	0.033	0.020	0.130	0.079	0.042	0.035	0.092	0.116	0.147	0.105
28	0.027	0.027	0.052	0.022	0.099	0.086	0.049	0.039	0.098	0.116	0.147	0.105
29	0.027		0.339	0.072	0.054	0.077	0.041	0.031	0.094	0.118	0.147	0.105
30	0.027		0.033	0.022	0.109	0.074	0.040	0.041	0.105	0.122	0.147	0.105
31	0.027		0.033		0.102		0.036	0.080		0.131		0.105
BEAR	0.0270	0.0277	0.0346	0.0255	0.0991	0.0953	0.0530	0.0440	0.0931	0.1133	0.1533	0.1279
INCRES	0.186	0.172	0.239	0.197	0.683	0.636	0.365	0.303	0.622	0.781		0.644
STA AV	0.355	0.534	0.596	0.489	0.691	0.680	0.551	0.376	0.365	0.922	0.409	0.405

Staticn Averages: 14 yr beginning 1964.
Conversion Factor: CFS to IN/INT, multiply by 0.22245.

LCCATION: Ecttawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishnabotra Biver, Missouri Fiver Masin. Iat. 41 deg. 12 min. 36 sec. N.; Iong. 95 deg. 38 min. 05 sec. W.

APEA: 150.00 acres

Jan	Feb									E 4		
		#ar	AFT	May	Jun	Jul	Aug	S∈ F	Oct	Ncv	D∈c	Arnual
9.45 9.158	0.12 0.152	3.33 0.220	1.57 9.185	7.50 1.063	1.49 0.448	3.97 0.352	7.99 0.685	5.29 0.826	3.70 0.660	1.97 0.995	0.50 0.675	37.78 6.421
0.57 0.459	0.58 0.465	1.48 0.657	3.17 0.565	4.77 0.934	4.86 1.030	3.33 0.768	3.72 0.569	4.50 0.599	2.85 0.553	1.43 0.534	0.82 0.501	32.08 7.636
Maxis Discha	100 1796	1 Hour		e Hours	aximum V 6 Hcu	clume for	r Select	ed Time	Interval Day	2 Cays	: 6	tays
											346 5-	
	0.158 0.57 0.459 OAL MAXIN Maxin Discha	0.158 0.152 0.57 0.58 0.459 0.465 0AL MAXIMUM DISC Maximum Discharge Date Fate	0.158	9.158 0.152 0.220 9.185 0.57 0.58 1.48 3.17 0.459 0.465 0.657 0.565 UAL MAXIMUM DISCHARGE (in/hr) AND Maximum Discharge 1 Bour 2 Date Bate Date Vol. Date	0.150 0.152 0.220 0.185 1.063 0.57 0.58 1.48 3.17 4.77 0.459 0.465 0.657 0.565 0.534 UAL MAXIMUM DISCHARGE (in/br) AND BAXIMUM Maximum Discharge 1 Hour 7 Hours Date Fate Date Vol. Date Vol.	0.150 0.152 0.220 0.185 1.063 0.446 0.57 0.58 1.48 3.17 4.77 4.66 0.459 0.465 0.657 0.565 0.524 1.030 UAL HAXIMUM DISCHARGE (in/hr) ARC EAXIMUM VCLUERS Haximum Paximum V Discharge 1 Hour 7 Hours 6 Hou Date Rate Date Vol. Date Vol. Date V	0.158 0.152 0.220 0.185 1.063 0.448 0.352 0.57 0.58 1.48 3.17 4.77 4.86 3.23 0.459 0.465 0.657 0.565 0.524 1.030 0.768 UAL HAXIMUM DISCHARGE (in/hr) ARE MAXIMUM VCLUMES OF FUNC Haximum Paximum Volume for Discharge 1 Hour 7 Hours 6 Hours 1 Hours	0.150 0.152 0.220 0.185 1.063 0.446 0.352 0.665 0.57 0.58 1.48 3.17 4.77 4.66 3.33 3.72 0.459 0.465 0.657 0.565 0.524 1.030 0.768 0.569 UAL HAXIMUM DISCHARGE (in/hr) ARE MAXIMUM VCIUMMES OF FUNCEF (inch- Maximum Paximum Volume for Select Discharge 1 Hour 7 Hours 6 Hours 12 Hours Date Rate Date Vol. Date Vol. Date Vol. Date Vol.	0.152 0.152 0.220 0.185 1.063 0.446 0.352 0.665 0.526 0.57 0.58 1.48 3.17 4.77 4.66 3.33 3.72 4.50 0.459 0.465 0.657 0.565 0.534 1.030 0.768 0.569 0.559 UAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF FUNCEF (inches) FOR Maximum Maximum Volume for Selected Time Discharge 1 Nour 2 Nours 6 Nours 12 Nours 1 Date Fate Date Vol. Date Vol. Date Vol. Date Vol. Date	0.150 0.152 0.220 0.185 1.063 0.446 0.352 0.665 0.626 0.660 0.57 0.58 1.48 3.17 4.77 4.66 3.33 3.72 4.50 2.85 0.459 0.465 0.657 0.565 0.524 1.030 0.768 0.569 0.595 0.553 UAL HAXIMOM DISCHARGE (in/hr) AND MAXIMOM VOLUMES OF MONOFF (inches) FOR SELECTE Haximum Paximum Volume for Selected Time Interval Discharge 1 Hour 7 Hours 6 Hours 12 Hours 1 Day Date Rate Date Vol. Date	0.150 0.152 0.220 0.185 1.063 0.446 0.352 0.665 0.626 0.660 0.995 0.57 0.58 1.48 3.17 4.77 4.66 3.33 3.72 4.50 2.85 1.43 0.459 0.465 0.657 0.565 0.524 1.030 0.768 0.569 0.555 0.552 0.534 UAL HAXIMUM DISCHARGE (in/hr) AND FAXIMUM VOLUMES OF FUNCEF (inches) FOR SELECTED TIPE II Haximum Paximum Volume for Selected Time Interval Discharge 1 Hour 7 Hours 6 Hours 12 Hours 1 Day 2 Days Date Rate Date Vol. Date Vol. Date Vol. Date Vol. Date Vol. Date Vol. Cate Vol. Date Vol. Cate Vol. Ca	0.152 0.152 0.220 0.185 1.063 0.446 0.352 0.665 0.626 0.660 0.995 0.675 0.57 0.58 1.48 3.17 4.77 4.66 3.33 3.72 4.50 2.85 1.43 0.62 0.459 0.465 0.657 0.565 0.524 1.030 0.768 0.569 0.595 0.553 0.534 0.601 UAL MAXIMUM DISCHARGE (in/hr) AND BAXIMUM VOLUMES OF FUNCEF (inches) FOR SELECTED TIME INTERVALE Haximum

Natershed Conditions: 73% contoured corn above level terraces which have a capacity of 2 inches of runoff; 23% contoured corn below the bottom terraces; 3% grassed terrace backslopes; 1% cully.

Maps: Topographic - Bydrologic Data for Experimental Agricultural Watersheds in the United States, 1972, USIA tisc. Fub. 1412, page 71.4-4.

Precipitation: Fecords began January 1, 1964. From gage 113 before April 4 and after November 9; Thiessem weighted average of gages 11%, 11%, and 11% for remainder of year.

Runoff: Fecords began Pebruary 27, 1964. Jan. 1-Feb. 27, 1964 runoff estimated and included in station averages. Long-Term Frecipitation: National Weather Service records at Omaha, Nebraska.

1977	Г.	AILY PREC	IFITATICN	(INCHES)			Т	FFYKCF, I	CHA WATEF	EBEC 4		
Cay	Jan	F∈b	Ħaɪ	ykı	2 a y	Jur	Jt1	Aug	S€p	Cct	N C V	Dec
1 2 3 4 5	0.0 9.98 9.0 0.08 0.0	0.3 0.0 0.0 0.0 0.2	0.0 0.57 0.0 0.0	0.26 0.30 0.36 0.0	0.0 1.60 0.11 1.23 0.0	0.0 0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.0 0.0 0.0 0.04 0.63	0.01 0.92 0.44 1.30 0.0	0.22 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.02 0.0 0.0 0.0 0.0
6 7 8 9 10	0.0 0.0 0.0 0.0	0.3 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.14 0.0 1.91 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.22 0.03 0.0 2.10 0.01	0.0 0.0 0.05 0.03	0.03 1.70 0.0 0.0 0.06	0.0 0.03 1.76 0.16 0.0	0.06 0.06 0.06 0.0
11 12 13 14 15	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	1.33 0.02 0.0 0.0 0.0	0.0 0.16 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.25 0.05 0.0	1.09 0.0 0.0 0.0 0.0	0.21 0.0 0.0 0.03 1.58	0.07 0.15 0.0 0.0	0.0 0.0 0.0 0.0 0.10	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
16 17 18 19 20	0.0 0.0 0.0 0.11 0.0	0.0 0.0 0.0 0.0	0.7 0.03 0.0 0.26 0.0	0.02 0.0 0.13 0.0 0.29	0.0 0.0 0.0 0.51 0.02	0.0 0.11 0.0 0.0	0.0 1.15 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.09 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.05 0.05 0.0 0.03 0.0
21 22 23 24 25	0.0 0.11 0.0 0.0	9.0 9.0 9.12 0.0 9.7	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.33 0.0 0.0 0.0 0.0	0.84 0.0 0.0 0.0 0.0	0.84 0.0 0.0 0.21 0.01	0.0 0.02 0.0 0.0 0.32	0.0 0.0 2.00 0.0	0.17 0.56 0.34 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
26 27 28 29 30 31	0.05 0.0 0.0 0.0 0.0	0.0 0.3 3.3	0.12 0.0 0.90 0.0 0.0	0.0 0.05 0.0 0.0	1.22 0.41 0.0 0.0 0.02	0.0 0.44 0.0 0.0	0.0 0.55 0.0 0.0	0.47 0.43 0.19 0.0 0.80 0.62	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.50 0.02	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0
TOTAL STA AV	0.45 0.57	0.12 0.58	3.33 1.48	1.57 3.17	7.50 4.77	1.49 4.86	3.87 3.32	7.99 3.72	5.29 4.50	3.70 2.65	1.57 1.43	0.50 0.82

Air Temperature: See table for Watershed 3 (71.002).
Gaging: Thiesser weighted average from stations 111, 112 and 113 for period of April 4 through November 9,
and from 113 for remainder of year.
Station Averages: 14 yr beginning 1964.

Cooperative Research Project of USCA and Iowa Agricultural and Home Economics Experiment Station

197	7	MEAN DAIL	Y IISCFAF	GE (CFS)			11	FEYNCE, I	CWA WATER	BEC 4		
Day	Jan	F∈b	Bar	Apr	Ray	Jur	Jtl	209	Sep	Cct	B C V	[ec
1	0.033	0.030	0.039	0.047	0.013	0.101	0.063	0.053	0.079	0.107	0.147	0.163
2	7.733	0.027	0.344	0.049	0.225	0.101	0.063	9.053	0.503	0.105	0.147	0.163
3	0.033	U. 327	0.043	0.050	0.053	9.101	0.063	0.052	0.279	0.105	0.139	0.163
4	0.033	0.027	0.039	0.047	0.705	0.100	0.079	0.051	1.209	0.105	0.140	0.150
5	0.033	0.037	0.739	0.047	0.416	0.098	0.063	0.059	0.183	0.105	0.147	0.156
é	0.033	C-C32	0.039	0.043	0.066	0.095	0.078	0.055	0.110	0.105	0.147	0.163
7	0.033	0.033	0.039	0.039	0.364	0.099	0.075	0.051	0.101	0.242	0.140	0.163
8	0.033	0.033	0.239	0.039	2.003	0.091	0.078	0.051	0.101	0 - 147	0.508	0.155
ç	0.033	0.033	0.039	0.038	3.166	0.094	0.079	0.716	0.099	0.147	0.718	0.147
10	0.)33	0.033	0.739	0.037	0.059	0.050	0.060	0.068	0.099	0.147	0.259	0.147
11	0.133	0.033	0.057	0.037	0.065	0.092	0.092	0.065	0.094	0.134	0.241	0.141
12	0.033	0.033	0.049	0.038	0.088	0.096	0.078	0.060	0.105	0.131	0.233	0.131
13	0.033	0.033	0.047	0.040	0.050	0.105	0.073	0.055	0.101	0.131	0.253	0.151
14	0.033	0.033	0.047	0.039	0.090	0.099	0.073	0.055	0.094	0.131	0.232	0.131
15	0.033	0.033	0.047	0.039	0.090	0.094	0.372	0-439	0.094	0.133	0.205	0.131
16	0.033	0.033	0.047	0.039	0.090	0.090	9.056	0.589	0.094	0.131	0.196	0.131
17	0.033	0.033	0.247	0.039	0.080	0.095	0.084	0.070	0.056	0.131	0.196	0.131
18	0.033	0.033	0-197	0.042	0.060	0.050	0.066	0.066	0.094	0.131	0.196	0.131
19	0.033	0.037	0.047	0.043	0.087	0.050	0.062	0.064	0.054	0.131	0.196	0.131
20	0.027	0.039	0.047	0.041	0.066	0.091	0.061	0.064	0.094	0.127	0.164	0.131
21	0.027	0.039	0.043	0.043	0.067	0.100	0.071	2.052	0.089	0.125	9.179	0.131
22	0.027	0.039	0.039	0.036	0.083	0.054	0.064	0.057	0.050	0.133	0.179	0.131
23	2-227	0.341	0.039	0.033	0.063	0.094	0.061	0.054	0.562	0.139	0.165	0.131
24	0.031	0.039	0.341	0.033	0.087	0.091	0.064	0.053	0.110	0.131	0.163	0.131
25	0.033	0.039	0.)47	0.033	0.091	0.069	0.065	0.058	0.105	0.131	0.163	0.131
2 €	0.033	0.039	0.048	0.031	0.567	0.069	0.064	0.121	0.105	0.139	0.163	0.131
27	0.033	0.039	3.047	0.032	0.523	0.068	0.060	0.079	0.105	0.147	0.163	0.116
2.8	0.033	0.039	0.357	0.033	0.137	0.054	0.065	0.064	0.105	0.147	0.163	0.116
29	0.033	0.00,	0.346	0.033	0.110	0.068	0.060	0.060	0.105	0.147	0.163	0.116
30	0.033		0.047	0.033	0.105	0.063	0.059	0.165	0.107	0.149	0.163	0.116
31	0.033		0.044	3.032	0.099	3.003	0.052	0.769	34197	0.147	2.103	0.116
BEAN	0.0322	0.0341	0.0448	0.0391	0.2160	0.0941	0.0716	0.1393	0.1736	0.1342	0.2091	0.1373
INCHES	0.156	0.152	0.220	0.166	1.063	0.449	0.352	0.685	0.626	0.660	0.595	0.875
STA AV	0.459	0.465		0.565	0.934	1.030	0.766	0.569	0.559	0.553	0.534	0.501

Station Averages: 14 yr teginning 1964. Conversion Factor: CPS to IN/DAY, multiply by 0.15666.

TIFTCH, GECTGIA HITTLE SIVER WATERSHEE E

IOCATION: Tift County, Georgia; approximately 3 miles west of Tifton on County Boad S1983; Little Fiver, Withlaccochee Siver Sub-basin, Suwanee Fiver Fasir, east weir: Lat. 31 deg. 26 min. 51 sec., Long. 83 deg. 34 min. 56 sec.

ARFA: 82592.00 acres 129.05 sq. miles

80	RTHL	Y PRECIP	ITATICN	AND FUNC	EP (INCHE	٤)	ı	IFICA, GI	ECECIA LI	TILE BI	TAN REV	EBSEEC	E	
		Jan	P∈b	Par	Arr	Fay	Jun	Jul	1n9	Ser	oct	Nev	Dec	Arrmal
1977	P Ç	4.84 4.168	2.78 1.269	6.52 4.617	1.33 0.613	2.55 0.004	2.89	6.30 0.001	7.74 0.485	5.97 1.628	1.36 0.067	4.38 0.587	3.71 1.31	
VA AIS	P C	4.70 2.086	4.65 2.554	5.45 2.230	4.64	4.01 1.084	4.94 0.4€€	5.90 0.484	5.07 0.399	3.15 0.843	2.11 0.116	2.88 0.297	4.10 1.01	
	ANN	OAL BAXI Baxi Cisch		CHAFGE (i 1 Hour			aximum	Volume fo	12 Eours	ed lime 1	Interva Day			LS & Days
	ANN	 Baxi	 mum arg∈		2		ахівця 8 Вс	Volume fo	cr Select	ed lime 1	Interva Day	1	y e	
1977	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Maxi Lisch	mum arge Bate	1 Hour Cate Vo	2 1. Date	Bcurs Vcl.	aximum & Hc Date	Volume fe urs 1	cr Select 12 Fours	ed lime 1 Date	Interva Day Vol.	1 2 Da Date	ys Vcl.	& Cays
1977		#axi Lisch Date	mum arge Bate	1 Hour Cate Vo	2 1. Date 020 3- 8	Bcurs Vcl.	aximum E Hc Date	Volume fe urs 1	cr Select 12 Fours ate Vol.	ed lime 1 Date	Interva Day Vol.	1 2 Da Date	ys Vcl.	& Cays Date Vol.

Natershed Conditions: Residential, 1.0%, forest, 35.7%; commercial, 0.4%; water, 1.9%; crops, 35.6%; wetland, 2.5%; pasture, 17.6%; roads, 0.5%.

Baps: Topographic/Composite - Bydrologic Lata for Experimental Agricultural Natersheds in the United States, 1975, USIA Bisc. Fut. 1446, pages 74.002-21 and 74.002-22.

Precipitatiou: Tecords began January 1968. Values are weighted using the reciprocal distance squared method from 28 recording gages. SIA Av values are based on 7 yr beginning 1971.

Innoff: Records tegan November 25, 1971. Station averages include part-year records.

Long-Term Precipitation: National Neather Service records at Tiftou, Georgia.

197	7 E	AILY PEEC	IFIT ATICN	(INCHES)		TIFT	CN, GECEG	IA LITTLE	BIVER	S DIBERTER		
Lay	Jan	P∈b	đar	Apr	ža y	Jur	Jul	Aug	Sep	Cct	₽CA	Lec
1	0.0	J.J	0.0	0.02	0.0	0.19	0.0	0.03	0.03		0.0	0.21
1 2	0.12 1.79	0.0	0.0	0.0	0.0	0-04	1.45	0.33	0.35	0.0	0.0	0.0
1 9	0.01	0.30 0.33	0-0 1.56	0.0 0.0	0.0 0.0	0.C 0.0	0.05	0.28	0.54	0.0	0.06 2.14	0.0 0.0
. š	0.01	0.3	0.16	0.59	0.0	0.0	0.18	0.03	9.71	0.0	0.01	0.71
Ι Ι ε	0.37	0.0	1.59	0.0	0.02	0.48	0.0	0.01	0.34	0.0	0.05	0.05
7	0.15	0.0	0.32	0.0	0.0	0.13	0.0	0.0	0.66	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.01	0.0	0.0	0.01
i 9 I 10	0.29 0.08	0.0	0.0 0.25	0.0	0.04	0.0	0.01	0.0 0.10	0.01 0.0	0.08	0.0	0.01
1 10	0.00	3.0	U. 25			0.01	0.9	0.10	0.0	0.0	0.0	0.0
ĺ 11	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.0
12	0.0	0.0	1.05	0.0	0.0	0.23	0.0	0.01	0.0	0.07	0.0	0.0
13	0.0	0.11	0.20	0.0	0.0	0.01	0.0	0.10	0.0	0.0	0.0	0.01
14 15	1.27 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.04	0.46	0.28	0.0	0.0	1.14 0.0
i								0.07				0.0
l 16	0.0	0.0	0.0	0.0	0101	0.0	0.01	0.04	0.31	0.0	0.12	0.01
1 17	0.0	0.0	0.0	0.0	0.01	0.04	0.0	30.0	0.15	0.0	0.18	0.29
l 18 l 19	0.0	0.J 0.45	0.0	0.0	0.0	0.21	0.41	0.78	0.47	0.0	0.01	0.01
1 20	0.0	0.45	0.0	0.0	0.0	0.06	0.01	2.00 0.0	0.52	0.0 0.0	0.01	0.0 0.35
i												
21	0.0	0.01	0.53	0.0	0.02	0.07	0.0	0.01	0.0	0.03	0.0	0.01
1 22	0.0	0.0	0.27	0.03	0.06	0.50	0.13	0.0	0.0	0.0	0.18	0.0
1 24	0.0 0.48	0.0 1.08	0.0	0.67	0.0 0.51	0.18	0.01	0.01	0.0	0.0	0.33	0.0 0.01
25	0.0	0.01	0.01	0.02	0.0	0.0	0.0	0.74	0.0	1.00	0.03	0.41
1 2-	0.0	0.01	0.01	0.0	0.0	0.0	0.5	0.74	0.0	1.00	0.05	0.41
26	0.0	0.0	0.0	0.0	0.48	0.0	0.14	1.41	0.01	0.07	0.6	0.0
1 27	0.17	0.76	0.0	0.0	0.04	0.0	1.75	0.04	0.0	0.0	0.0	0.0
1 28 1 29	0.0	0.0	0.0	0.0	0.48	0.0	0.77	0.0	0.0	0.0	0.0	0.0
1 29	0.0		0.0	0.0	0.14 0.05	0.33	0.02	0.16 0.05	0.0 0.20	0.0	0.0 0.67	0.06 0.38
31	0.10		0.53	0.0	0.31	0.01	0.12	0.05	0. 20	0.05	U . C /	0.10
 IATOL	4.84	2.78	6.92	1.33	2.55	2.89	6.30	7.74	5.97	1.36	4.38	3.71
VA AFE	4.70	4.65	5.45	4.64	4.01	4.54	5.50	5.07	3.15		2.88	4.10

Gaging: Values are weighted using Reciprocal Distance Squared Method from 28 recording gages. Station Averages: 7 yr beginning 1971.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia
Institute of Technology, and Middle South Georgia Soil Conservation District

19	77	BEAN DAIL	Y FISCHAR	GE (CFS)		IIFIC	N, GECEG	A LITTLE	FIVES WA	TEBSEEC !	E	
Day	Jau	P∈b	Bar	Врг	Bay	Jur	Jul	≥ug	Sep	Cct	B C V	ſęc
1	235.5	178. 1	313.0	266.4F		0.0	0.0	0.0	* 71.€	20.1E		82.3
2	317.1	16 1. E	324.€	237. EE	3.3	0.6	0.1	0.0	46.0	18.4F	9.3	119.0
3	443.4	159.7	255.2	274.8E	2.2	0.0		0.0	41.7			147.5
4	£79.6	178.1	239.1	217.7E	1.4	0.0	G.E	0.0	48.3	17.4E	23.7	146.8
5	1322.4	187.5	419.1	152.7E	1.0	0.0	3.6	0.7	168.2	14.8E	134.5	115.3
6	1115.1	195.6	885.0	128. 4E	0.6	0.0	0 - 4	1.6	621.0	11.8E	185.8	134.1
7	655.4	190.5	1515.7	129.2F	0.4	6.0	0.3	2.1	583.0	9.0E	217.9	215.5
3	531.5	162.7	1851.2	157.0E	0.2	0 - 0	0.2E	1.6	526.€	7.1	180.6	214.4
ç	521.7	134. €	1404.6	134.1E	0.2	0.0	0.3E	1.0	401.6	5.8	123.7	152.5
10	523.€	115.6	833.7	86.4E	0.1	0.0	0.2E	0.7	364.9	9.8	75.5	105.3
11	451.6	104.8	516.2	57.6E	0.1	0.0	0.1E	0.5	270.3	4.1	52.8	81.3
12	409.0	96.3	431.9	41.7E	0.0	0.0	0.1E	0.4	178.3	3.9	40.2	67.9
13	359.0	94.6	526.6	32.5E	0.0	0.0	C.UE	0.3	114.2	2.7	32.5	60.7
14	391.8	94.0	1491.9	26.6F	0.0	0.0	0.0E	0.2	75.5	3.4	28.6	70.6
15	566.8	94.1	926.2	22.0F	0.0	0.0	0.01	0.2	109.3	9.0	22.1	126.3
16	847.5	97. 3	533.4	18.0	0.0	0.0	0.0	0.4	152.7	2.7	19.8	174.7
17	838.4	96.6	283.7	14.3	0.0	0.0	0.0	0.3	123.4	2.3	19.3	248.2
18	540.7	84.9	279.6	11.1	0.0	0.0	0.0	0.5	127.5	1.5	21.0	267.€
19	384.7	74.9	228.4	8.7	0.0	0.0	0.0	24.4	127.3	1.6	28.7	212.3
20	285.7	90.2	157.0	6.6	0.0	0.0	0 - 0	230.7	260.8	1.3	33.0	181.1
21	247.7	111.7	173.2	5.0	0.0	0.0	0.0	119.0	435.4	1.1	22.3	152.5
22	226.5	127. 1	203.8	3.5	0.0	0.0	0.0	106.2	295.2	1.0	28.8	160.1
23	213.€	125.3	252.3	4.0	0.0	0.0	0.0	78.6	183.0	0.9	35.9	174.2
24	211.1	186.3	325.0	€.4	0.0	0.0	0.0	3€.5	99.5	3.0	58.5	186.1
25	233.9	278.0	348.1E	7.7	0.0	0.0	0.0	26.7	68.9	1.1	92.0	139.4
26	254.8	309.9	251.2E	12.3	0.0	0.0	0.0	74.5	51.8	5.4	114.8	125.4
27	253.7	327. €	170.3E	25.3	0.0	0.0	0.0	134.9	40.7	10.0	113.2	127.0
26	304.5	343.1	132.7E	20.4	0.0	0.01	0.0	158.4	33.1	12.5	100.6	142.4
29	256.3		112.1F	12.7	0.0	0.0	0.0	280.8	27.0	15.9	70.4	143.0
30	220.3		98.7E	7.5	0.0	0.0	0.0	223.7	22. €	15.4	54.8	128.2
31	197.5		158.2E		0.0		0.0	135.8		13.0		115.1
EAB	466.59	157. 24	516.79	79. 91	0.47	0.00	0.12	54.28	188.28	7.49	£5.61	147.1
CHES	4.188	1.269	4.617	0.613	0.004	0.000	0.001	0.485	1.628	0.067		1.31
IA AV	2.088	2.654	2.230	2.909	1.084	0.466	0.464	0.399	9.643	0.116		1.01

t-Staticu Averages: 7 yr beginrirg 1971. Conversiou Eactor: CFS to IB/CAY, multiply by 0.0002681.

				TIFICE, CECEGIA IITTEE BIVEE WATERSEEL E								
ANTECEC	ENI CCHDII	ICES		FAINFALL Date live lutersity Acc.				FUNCER				
Eat∈ Bo-Day	(iuches)	(inches)	Po-Day	of tay	(in/hr)	inches)	Bo-tay	of Day	(cfs)	Acc. (inches)		
			EVE	NI CE BCVI	EBIE 2 -	16, 1977						
Б	000014			FG 0000	114							
11- 3			11- 3		0.0	9.0	11- 2	2400	€.702	0.0		
11- 2		0.003			1.2001	0.10	11- 3		8.388	0.0000		
			11- 4	509		0.10		2400	8.038	0.0003		
				€20	0.0845	0.20	11- 4		8.386	0.0003		
				730	0.0857	0.30		1040	11.724	0.0003		
WATEFSSEE C												
esidential,				755	0.2400	0.40		1245	15.372	0.0003		
.9%; Crops,				840	0.1233	0.50		1455	26.172	0.0004		
and, 2.5%;				€55	0.4000	0.80		1750	35.625	0.0004		
oads, 0.5%;		1,		925	1.2000	1.20		2010	46.065	0.0005		
.4%; forest	39.7%.			1000	0.1714	1.30		2220	57.189	0.0005		
				1025	0.2400	1.40		2335	£7.230	0.0006		
				1050	0.2400	1.50		2400	89.918	0.0007		
				1130	0.1500		11- 5		85.577	0.0008		
				1135	1.1999	1.70	111. 2	335	100.803	0.0005		
				1145	0.8000	1.60		445	111.575	0.0010		
				1143	0.000	1.00		445	111.373	0.0010		
				1255	0.1714	2.00		545	115.187	0.0011		
				1305	0.6000	2.10		650	125.079	0.0013		
								740	131.183	0.0015		
								835	133.280	0.0023		
								9 10	137.482	0.0024		
								1015	135.624	0.0031		
								1020	141.792	0.0033		
								1120	143.578	0.0034		
								1225	146. 187	0.0035		
								1345	148.422	0.0037		
								1525	150.675	0.0038		
								1655	152.952	0.0040		
								1825	155.254	0.0041		
								1955	157.576	0.0043		
								2120	155.921	0.0045		

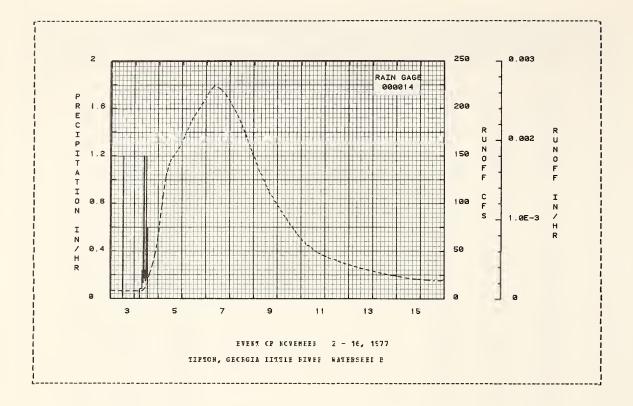
Conversion Factor: CES to IB/8F, multiply by 0.000012.

		FF EVENT				K, GECFEIA				
Date Bo-Day	CENT CCNDIT Rainfall (ircbes)	Funcff [inches]	Date # Bo-Day	Time of Lay	Intersity (in/br)	Acc. (inches)	Dat∈ Mc-Day	Time of Cay	:r Eat∈ (cfs)	Acc. (inches)
			FARM CL	PCAFFEE	2 - 16,	1977 (CC:		2255	460 000	0.0005
							11- 5	2400	162.293 164.664 167.102 169.540 172.601	0.0056
							11- e	130	169.540	0.0056
								235		
								345 445	174.490 176.996 179.531 162.091 164.672	0.0063
								55 0 655	179.531	0.0067
								805	164.672	6.0070
								910 1020	167.277 189.910 192.564	0.0072
								1205	192.564	0.0076
								133 0 1530	195.242 197.949	0.0078
									200.676	
								2035	203.433 206.210	G.0066
									205.012 211.844	
							11- 7		214.657	
									217.575 220.483	
								755	223.413	0.0167
									217.575	
								1840	214.697 211.844	0.9114
								2220	205.012 206.210	0.0118
							11- 6	245	203.433 200.676	0.0128
								550	197.249 195.242	0.0132
									192.564	
								925	165.910 167.277	0.0138
								1035 1135	164.672 182.091	0.0140
								1225	179.531	0.0143
								1325 1430	176.996 174.490	0.0145
								1520 1615	172.001 169.540	0.0149
								1716	167.102	0.0152
								1800	164.664	0.0154
								1650 1940	159.921	0.0155
								2030 2120	164.664 162.293 159.921 157.576 155.254	0.0159 0.0160
								22 10		
								2300 2400	152.552 150.675 146.422	0.0163 0.0168
							11- 9	120 215	146.167 141.792	0.0178 0.0179
								345	139.624	0.0190
								440 530	135.359 133.260	0.0192
								625 810	131.163 129.125	0.0194 0.0206
								905	125.079	0.0207
								1035 1135	123.086 119.167	0.0217 0.0218
								1310 1315	117.237 115.330	0.0228
										0.0229
								1505 1510	113.444	0.0242
								1620 1735	109.730 107.903	0.0243
								1930	106.098	0.0254
								20 35 22 30	102.547 100.803	0.0255 0.0266
							11-10	2400 135	97.372 95.687	0.0271 0.0282
								245	92.372	0.0263

Conversion Factor: CPS to 18/85, multiply by 0.000012.

77 SELECTED FOR										
ANIFCERENI CCNDI fate Bainfall Bo-Day (irches)	TICAS Buncff (inches)	Date Mo-Eay	FAI Time of Tay	REALI Intersity (in/br)	Acc. (inches)	Dat∈ Ec-Day	FORCE Time of Cay	E Bat∈ (cís)	Acc. (inches)	
		EVENT CE N	CVESEER	2 - 16,	1977 (CC)	11-1G	450 600 720 900 1010	\$0.745 67.547 65.977 64.423 61.377	0.0294 0.0295 0.0295 0.0302 0.0303	
								79.880 76.945 75.502 72.675 71.286	0.0309 0.0310 0.0319 0.0319	
						11-11	1855 2045 2205 2400 115	66.564 67.230 64.612 63.330 60.815	C-0326 0.9332 0.0333 C-0340 0.0341	
							330 440 610 850 1025	59.564 57.169 55.967 54.820 53.671	0-0349 0-0350 0-0350 0-0358 0-0360	
								51.419 50.316 49.233 46.162 47.106	0.0360 0.0361 0.0363 0.0364	
						11-12	2050 2245 2400 105 310	46.069 45.044 45.044 44.036	0.0365 0.0365 0.0371 0.0372 0.0372	
							535 935 1145 1320 1540	42.064 41.100 40.151 39.217 36.296	0.0385	
						11-13	1825 2100 2400 235 525	37.392 36.501 35.625 34.762 33.914	0.0386 0.0386 0.0388 6.0388 0.0388	
								33.079 52.256 31.451 30.656 29.876	0.0365 0.0389 0.0390	
						11-14	240	29.110 26.355 27.615 26.867 26.172	0.0392 0.0393 0.0393	
						11-15	1430 1825 2400 130 505	25.470 24.761 24.103 23.439 22.767	0.0394	
						11-1€	840 1230 1735 2400 615	22.146 21.518 20.901 20.257 19.705	0.0400 0.0401 0.0401 6.0401 0.0401	
							1335 1405 1910 2225	19.123 19.705 19.123	0.0401 0.0402 0.0402	

Conversion Factor: CFS to IB/BF, multiply by 0.000012.



74.002- 5

LCCATION: Tift County, Georgia; approximately 4 miles northwest of Tifton on Connty Boad S1175; Beard Creek, Little Biver Watershed, Bithlacoochee Fiver Sub-tasin, Suwannee Fiver Basin. Lat. 31 deg. 31 min. 03 sec., Long. 83 deg. 35 min. 10 sec.

3872.00 acres 6.35 sg. miles

a c	FIBL	PRECIP	ITATICN	AND EUNC	EF (IRCEE	٤)	ī	BITCE, 6	ECECIA II	TILE BI	VER RAI	EESEED N		
		Jan	F∈b	Far	AFF	la y	Jun	Jul	lug	S€F	Oct	BCV	E€C	Arrnal
1977	P Q	4.27 3.008	2.88 1.546	6.70 3.456	1.06 0.633	2.39 0.015	2.12	6.06 0.0	ε.53 1.107	7.77 2.227	1.69 0.500	5.12 1.395	3.06 1.846	51.65 15.732
SIA AV	P Q	4.37 2.069	4.47 2.554	5.48 2.343	4.49 2.553	4.62 1.403	4.82 0.706	5.54 0.623	5.77 0.556	3.53 0.821	2.61 0.321	2.63 0.613	3.81 1.232	52.13 15.794
	ARR	AL FAXI	MUM DISC	HARGE (i	n/br) AND	MAXIMO	A ACTORE	S OF FUR	CII (inch	€£) FCE	SELECTE	C TIME I	BIFFVALS	
		Maxi Disch Dat∈	arge	1 Bcnr Fate Vo		Bcurs Vcl.	€ Bc	urs	or Select 12 Bonrs at∈ ∀cl.	1	Interva Day Vol.			Prays t∈ Vcl.
1977		8-2C	0.043	ε-2 0 0.	042 8-20				-13 0.34	8 3-13	0.502	3- € 0	.675 3-	6 1.896
						EVXIENE	S ECF PE	FIOL CE	FICCPE					
		2- 2 1972		2- 2 0. 1973	161 2- 2 1973		2- 2 1973		- 2 1.3 6 973	1 2- 2 1973	1.672	4-25 2 1973	.096 3+3 193	81 1.822 73

Watersbed Conditions: Residential, 1.7%; water, 2.1%; crofs, 46.7%; wetland, 0.2%; pastore, 17.3%; roads, 0.9%;

Watershed Conditions: Residential, 1.7%; water, 2.1%; crops, 46.7%; wetland, 0.2%; pastnre, 17.3%; rcads, 0.9%; fcrest, 31.1%.

Maps: Topcgraphic/Composite - Bydrologic Tata for Experimental Agricultural Watersheds in the United States, 1975, USTA Misc. Pub. 1446; pages 74.003-21 and 74.002-22.

Precipitation: Becords began January 1966. Values are weighted using the reciprocal distance squared method from 9 recording gages. STA AV are based on 8 yr beginning 1970.

Bunoff: Becords tegan Howember 1, 1970. STA AV include part-year records.

Long-Term Precipitation: Wational Weather Service records at Tiftor, Georgia.

1977	Ľ.	AILY PREC	PITATION	(IRCBES)		TIFT	CN, GECEG	IA LITTLE	RIVEF W	ATERSEED	8	
Lay	Jan	F∈b	Bar	Mpr	Łay	Jnr	Jnl	Au g	Sep	Cct	BC V	ľ€¢
1 2 3	9.0 0.10 1.50	0.0 0.0 0.34	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.57 0.08 0.0	0.0 1.76 0.0	0.05 0.49 0.52	0.0 0.31 0.55	0.0 0.0 0.0	0.0 0.0 0.10	0.34 0.0 0.0
4 5	0.02	0.06	1.28	0.0 0.47	0.0	0.0	0.09	0.52	1.85	0.0 6.0	2.39 0.0	0.03 03.0
8 8 9 10	0.25 0.16 0.0 0.18 0.12	0.0 0.0 0.0 0.0	1.31 0.47 0.0 0.0 0.20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.12 0.0	0.30 0.14 0.0 0.0	0.0 0.61 0.0 0.0	0.0 0.0 0.0 0.0	0.14 1.44 0.0 0.0 0.0	0.0 0.0 0.0 0.11	0.0 0.0 0.0 0.0	0.12 0.0 0.0 0.0 0.0
11 12 13 14 15	0.0 0.0 9.0 1.18	0.0 0.0 0.0 0.0	0.0 1.27 0.18 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.21 0.0 0.0	0.0 0.05 0.0 0.01 0.05	0.0 0.04 0.05 0.32 0.35	0.0 0.0 0.0 0.54 0.61	0.0 0.07 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0± 0.87 0.0
16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.65 0.04	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.03 1.00	0.0 0.0 0.0 0.12 0.0	0.0 0.0 0.12 0.0 0.0	0.05 0.0 1.16 2.92 0.0	0.46 0.03 0.19 1.00	0.0 0.0 0.0 0.0	0.09 0.31 0.03 0.03	0.0 0.0 0.0 0.0 0.0
21 22 23 24 25	0.0 0.0 0.0 0.44	0.0 0.0 0.0 1.18 0.0	0.20 0.52 0.0 0.0	0.0 0.06 0.53 0.0	0.03 0.01 0.02 0.04 0.0	0.04 0.50 0.0 0.0	0.0 0.13 0.0 0.0	0.0 0.0 0.0 0.46 0.82	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.30 0.55 0.59	0.0 0.0 0.0 0.0 0.2
26 27 28 29 30 31	0.0 0.22 0.0 0.0 0.0 0.10	0.0 0.61 0.0	0.0 0.0 0.0 0.0 0.0 1.23	0.0 0.0 0.0 0.0	0.43 0.0 0.56 0.12 0.01	0.0 0.0 0.0 0.06 0.0	0.10 1.06 0.62 0.0 1.01	0.64 0.07 0.0 0.0 0.0 0.07	0.0 0.0 0.0 0.0 0.16	0.12 0.0 0.0 0.0 0.29 0.0	0.0 0.0 0.0 0.0 0.73	0.0 0.0 0.0 0.03 0.27
TOTAL STA AV	4.27 4.37	2.88 4.47	6.70 5.48	1.06 4.49	2.39 4.62	2.12 4.82	€.0€ 5.54	£.53 5.77	7.77 3.53	1.65 2.61	5.12 2.63	3.06 3.81

Gaging: Values are weighted using Becirrocal Distance Squared Bethod from 9 recording gages. Station Averages: 8 yr beginning 1970.

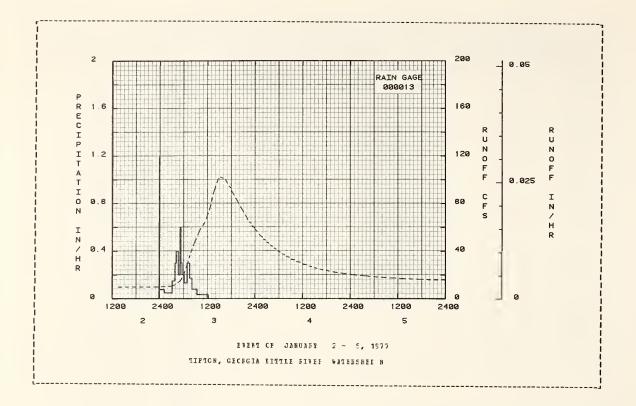
In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia Institute of Technology, and Middle Scoth Georgia Soil Conservation District

19	77	MEAN DAII	LY LISCHAR	GE (CFS)		TIFT	CN, GECEG	IA IITTIE	BIVER	WATEFSBEC	ь	
Day	Jan	Feb	Mar	Apr	Bay	Jur	Je1	Aug	Sep	Cct	NCA.	Lec
1	14.471	8.944	6.744	17.420	0.574	0.0	0.0	0.0	1.723	3.684	3.262	20.237
2	10.423	7.791	7.140	9-636	0.463	0.0	0.0	U_0	1.627	3.926	3.005	13.937
3	56.464	8.411	6.602	7.226	0.376	0.0	0_0	J_0	3.656	3.376	2,960	6.834
4	32.761	12.826	25.730	5.793	0.292	0.0	0.0	1. 144	16.274	2.668	27.309	7.447
5	17.794	9.543	32.821	7.877	C.252	0.0	0.0	6.997	43.751	2.253	29.612	10.092
6	14.639	7.927	26.661	7.161	0.190	0.0	0.0	3.264	16.680	2.003	10.731	16.621
7	23.449	6.847	74.633	4.861	0.105	0.0	0.0	1.302	48.666	1.617	6.674	10.548
8	16.225	6.437	23.695	4-011	0.042	0.0	0.0	0.612	46.314	1.779	5.447	7.675
9	12.817	6.310	15.1)6	3,410	C.U46	0.0	0.0	0.277	14-290	1.951	5.105	7.074
10	16.878	6.067	14.450	2.940	0.029	0.0	0.0	0.109	8.885	2.074	4.672	6.655
11	13.241	5.852	16.777	2.654	0-004	0.0	0.0	0.033	7.022	1.564	4.390	6.111
12	10.672	5.794	14.327	2.435	0.0	0.0	0.0	0.004	5.880	2.255	4.672	5.796
13	10.093	6.090	81.442	2.207	0.0	0.0	0.0	0.0	5.114	2.047	4-023	5.903
14	33.533	6.185	23.670	1.970	0.0	0.0	0.0	0.0	4.663	1.648	3.711	15.013
15	32.939	5.496	14.784	1.727	0.0	0.0	0.0	0.0	8.335	1.601	3.476	20.360
16	16.557	5.158	12.303	1.507	0.0	0.0	0.0	0.0	11.784	1.642	3.788	11.304
17	12.269	4.709	10.731	1.306	0.3	0.0	0.0	0.003	13.956	1.517	4.355	9.391
18	11.076	4.607	5.796	1.126	0.0	0.0	0.0	1.326	9.902	1.409	7.534	8.445
19	10.149	5.128	5.299	1.033	0.0	0.0	0.0	19.458	11.412	1.341	6.357	7.615
20	9.736	14.439	6.667	0.908	0.0	0.0	0.0	64.337F	26.245	1.184	4.878	7.446
21	9.962	8.714	6.155	0.790	0.0	0.0	0.0	12.476E	12.342	1.051	4.295	12.254
22	9.359	6.164	22.562	0.729	0.0	0.0	0.0	5.637E	7.993	1. 153	4.134	5.906
23	6.760	5.431	13.482	1.954	0_0	0.0	0.0	3.584E	6.196	1.259	11.098	7.353
24	11.308	33.474	9.011	3.670	0.0	0.0	0.0	3.606E	5.192	1.290	15.477	6.610
25	14.733	16.564	7.921	2.547	0.0	0.0	0.0	11.423E	4.668	2.630	13.492	9.857
26	10.247	8.923	7.223	1.672	0.0	0.0	0.0	16.686E	4.294	10.328	8.748	10.817
27	10.483	11.887	6.572	1.267	0.0	0.0	0.0	13.169	4.007	5.590	6.323	7.700
28	12.376	15.426	€.236	1.148	0.0	0.0	0.0	5.822	3.867	3.636	5.371	6.539
29	9.561		5.556	0.562	0.0	0.0	0.0	3.704	4.085	3.023	5.065	€.104
30	7.915		5.750	0.735	0.0	0.0	6.0	2.843	3.568	3.551	€.680	7.310E
31	8.440		25.492		0.0		0.0	2.257		4.466		6.820E
EEAB	15.783	8.982	16.137	3.430	0.076	0.0	0.0	5.810	12.078		7.562	9.689
INCHES	3.006	1.546	3.456	0.633	0.015	0.0	0.0	1.107	2.227		1.395	1.646
STA AV	2.0€9	2.554	2.343	2.553	1.403	0.706	0.623	0.556	0.821	0.321	0.613	1.232

Ctation Averages: 6 yr beginsing 1970.
Conversion Factor: CFS to IN/LAY, multiply by 0.00614712.

ANTECEDENT CONDITIC	BS	- -	FAI	INEALI		FUNCER			
Eate Fainfall Mo-Day (inches) (Date Mo-Day		Intensity (in/hr)					Acc. (inches)
		EAE	IT OF JAI	SUARY 2 -	5, 1977				
FG 000013			FG 0000						
1- 2 0.0	0.037	1- 2	2350	0.0	0.0	1- 2	1330	9.578	0.0
			2355	1.2000	0.10		2400	9.976	0.0268
			2400	0.1200	0.11	1- 3	25	10.329	0.0270
		1- 3	1 10	0.0771	0.20		240	10.666	C.0293
			310	0.0500	0.30		350	11.801	0.0296
ATERSHED CONCITIONS:			250						
sidential, 1.7%; water			350	0.1500	0.40		5 10	15.057	0.0301
1%; crcrs, 46.7%; wet-			4 10	0.3000	0.50		605	20.419	0.0343
nd, 0.2%; pasture,			4 25	0.4000	0.60		655	26.565	0.0349
.3%; rcads, 0.5%;			440	0.9000	0.70		730	34.696	0.0371
rest, 31.1%.			5 10	0.2000	0.60		735	36.149	0.0378
			520	0.6000	0.50		845	47.305	0.0503
			540	0.3000	1.00		915	50.816	0.0514
			610	0.2000	1.10		955	56.361	0.0527
			655	0.1333	1.20		1020	55.262	0.0562
			715	0.3000	1.30		1050	61.240	0-0575
			735	0.3000	1.40		1120	64.261	0.0569
			8 10	0.1714	1.50		1145	67.405	0.0604
			925	0.0600	1.68		1210	71.715	0.0634
			1220	0.0343	1.70		1240	76.176	0.0650
							1340	90.515	0.0830
							1405	94.326	0.0650
							1435	99.55C	0.0871
							1450	100.661	0.0653
							1515	102.225	0.0914
							1550	100.661	0.092€
							1635	99.550	0.0979
							1700	96.917	0.0559
							1725	54.32€	9. 10 20
							1750	93.044	0.1059
							1815	69.264	0-1079
							1015	03.204	0. 10 / 2

	ELECTED BOBO					B, GECEGIA				
Eat∈ Fo-Day	DENI CCMCII Bainfall (inches)	Suncff (inches)	Date Mo-Day	FAI Time of Day	Intensity (in/bl)	Acc. (incbes)	Tat∈ 8c-Day	FORCE Time of Day	Bat∈ cfs)	Acc. (inches)
					2 - 5,					
							1~ 3	1645 1520 1955 2030 2105	66.755 63.164 75.625 76.176 72.815	0.1132 0.1146
								2210	65.542 66.357 64.261 63.255 61.240	0.1179 0.1152 0.1207 0.1234 0.1247
							1- 4	2355 2400 35 110 150		0.1272 0.1265 0.1267 0.1306
								210 240 300 330 355	45.043 47.305	0.1341 0.1262 0.1372 0.1352 0.1402
								425 450 525 550 625	43.936 42.310 41.506 39.933 39.156	0.1420 0.1429 0.1456 0.1465
								655 730 800 840 910	16.888 35.416 24.696	0.1496 0.1521 0.1525 0.1551 0.1558
								1000 1030 1125 1200 1300	32.562 31.216 30.546	0.1586 0.1553 0.1626 0.1632
								1340 1420 1500 1540 1625	26.700	0.1674 0.1680 0.1666 0.1891 0.1697
								1710 1800 1845 1945 2045	23.723 23.153 22.550	0.1702 0.1707 0.1712 0.1717 0.1722
							1- 5	2155 2300 10 140 315	20.950	0.1726 0.1731 0.1735 0.1735 0.1744
								500 700 905 1135	17.864	0.1748 0.1752 0.1756 0.1759



74.003- 4

TIPTON, GEOFGIA LITTLE ELVES WATERSEED C

LOCATION: Tift County, Georgia; approximately 2.5 miles northwest of Tifton on County Ecad S1175; Mill Creek, Little River Watershed, Withlacoochee River Sut-Lasin, Suwarree Miver Matershed, Withlacoochee River Mittala Mitt

AREA: 3936.00 acres 6.15 sg. miles

Ł	CKTBL	F PRECIP	ITATICN	AKE BUNO	FE (IBCEE	s)	1	IFTCE, G	FCEGIA LI	TILE BI	WER WAT	EFSHED C		
		Jan	₽€b	far	ytı	Pay	Jun	Jul	Δug	2€₽	Cct	KCV	D∈c	Arrual
1577	P Q	3.90	2.70 1.570	6.23 3.J00	0.55 0.515	2.54 0.048	4.35 0.104	4.38 0.132	9.33 1.136	5.23 0.579	1.64 0.310	4.69 0.569	2.61 1.576	49.19 13.133
STA AV	P C	3.80 1.953	4.10 2.654	5.29 2.731	3.74 2.354	4.66 1.284	4.27 0.498	5.49 0.564	6.07 1.084	3.06 0.601	2.23 0.285	2.68 0.420	4.04 0.558	49.43 15.426
	ABE	DAL EAXI Baxi Disch	 #0 #	1 Bour	o/br) ARC		arisus	Vclume f	CFF (inch 	ed lime				
														Davs
		Date	Bate	Cate Vc.	l. Date	Vol.	Date	Vol. D	ate Vol.		Vcl.	Cate V		Eays ∈ Vol.
1977		8-19			Date 062 8-15					Eat∈		Cat∈ V		€ ¥01.
1977					062 8-19	0.115	E- 19		-19 0.49	Eat∈		Cat∈ V	cl. Dat	€ ¥01.

Watershed Conditions: Besidential, 1.61; water, 2.5%; crcgs, 25.6%; pasture, 31.7%; roads, 1.3%; forest, 32.5%.

Baps: Topographic/Composite - Bydrologic Data for Experimental Agricultural Watersheds in the Onited States, 1575,

OSDA Misc. Enh. 1996, pages 74.004-25 and 74.002-22.

Precipitation: Fecords began January 1566. Values are weighted using the reciprocal distance squared method from 5

recording gages. STA AV are based on 10 yr reginning 1568.

Bunoff: Becords began Daccmber 1, 1966. STA AV include part-year records.

Long-Term Precipitation: Mational Weather Service records at Tiftor, Georgia.

1977	D.	AILY PEEC	A DILATIE	(INCHES)		1111	IN, CECEGI	A LITTLE	BIVER	WATEFSEED C		
Day	Jan	₽eb	Bar	åŗī	tay	Jun	Jul	Aug	Seţ	Cct	Bcv	Dec
1 1	0.0	0.0	0.0	0.01	0.0	0.59	0.0 1.73	0.01	0.0	0.0	0.0	0.22
į 3	1. 22	0.34	0.0	0.0	0.0	0.0	0.61	0.76	0.56	0.0	0.10	0.0
1 4	0.06	0.3€	1.11	0.0	0.0	0.0	0.12	0.64	0.87	0.0	2.20	0.0
5	0.0	0.0	0.0	0.27	0.0	0.0	0.02	0.06	0.15	0.0	0.0	0.39
i 6	0.23 0.17	0.0	1.34	0-0	0.0	0.44	0.0	0.03	0.17	0.0	0.0	0.21
1 6	0.0	0.0	0.44	0.0	0.0	0.12 0.C	0.37	0.0	0.62	0.0	0.0	0.0
Š	0.14	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.10	0.01	0.0
10	0.16	0.0	0.20	0.0	0.0	0.0	0.01	0.15	0.0	0.0	0.0	0.0
11	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
1 12	0.0	0.0	0.82	0.0	0.0	0.65	0.02	0.01	0.0	0.03	0.0	0.0
1 13 1 14	0.0 1.04	0.03	0.35	0.0	0.0	0.0	0.02	0.07 0.14	0.0	0.0	0.0	0.0
1 15	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.33	0.13	0.0	0.0	0.80
1 16 1 17	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.05	0.68	0.0	0.08	0.0
1 18	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.07	0.0	0.17	0.0
1 15	0.0	0.53	0.0	0.0	0.0	0.03	0.02	2.10	0.66	0.0	0.0	0.0
20	0.0	0.03	0.0	0.0	1.00	0.01	0.0	0.0	9.01	0.0	0.0	0.36
21	0.0	0.92	0.07	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0
1 22	0.0	0.0	0.63	0.06	0.0	2.09	0.10	0.0	0.0	0.0	0.36	0.0
23	0.0	0.0	0.0	0.54	0.05	0.05	0.0	0.0	0.0	0.0	0.49	0.0
1 24 1 25	0.43	1.20	0.0	0.0	0.20	0.01	0.0	0.48	0.0	0.0	0.53	0.0
i				0.0	0.0	0.0	0.0	0.80	0.0	1. 20	0.0	0.31
26	0.0	0.9	0.9	0.0	0.10	0.0	0.01	0.48	0.0	0.17	0.0	0.0
27	0.25	0.49	0.0	0.0	0.0	0.0	0.37	0.06	0.0	0.0	0.0	0.0
1 28	0.0	0.0	0.0	0.0	1.22	0.0	0.25	0.0	0.0	0.0	0.0	0.0
1 30	0.0		0.0	0.0	0.20	0.05	0.04	0.0	0.0	0.0	0.0	0.08
31	0.10		1.26	0.0	0.01	0.02	0.71	0.06	0.16	0.14	0.54	0.22
i												
TOTAL STA AV	3.90 3.80	2.70 4.10	6.23 5.29	0.99 3.74	2.54	4.35	4.38	9.33	5.23	1.64	4.69	2.61
318 81	3.00	4.10	5.25	3.74	4.66	4.27	5.49	6.07	3.06	2.23	2.68	4.04

Gaging: Values are weighted using Beciprocal Distance Squared Method from 9 recording gages. Station Averages: 10 yr begirning 1968.

In Cooperation with University of Georgia College of Agriculture Experiment Staticus, Georgia Institute of Technology, and Middle Scuth Georgia Soil Conservation District

15	77	MEAN DAIL	Y LISCHAR	GB (CFS)		liel.	CN, GECFG	ILTTIE AL	FIVEE	WATERSHED	c	
Day	Jan	P∈b	Mar	yer	čay	Jur	Jtl	lug	S€ŗ	Cct) CV	Σ€C
1	14.207	8 - 217	٤.576	16.967	0.024	0.244	0.160	1.175	1.368	2.127	1.655	24.275
2	9.739	7.012	€.881	6.850	0.011	1.378	4.179	5.546	2.119	1.868	1.742	10.558
3	46.090	8.052	5.991	6.872	0.005	0.667	5.117	1.544	6.546	1.683	1.661	7.171
4	32.809	12.713	20.343B	5.530	0.001	G.190	1.675	2.778	10.034	1.210	19.691	6.128
5	17.227	9.915	29.585E	7.831	0.0	0.033	1.217	2.767	17.759	1.189	23.551	5.255
6	14.221	7.338	25.308E	5.959	0.0	0.244	0.694	1.180	8.730	1.152	6.471	13.556
7	25.333	6.155	73.950E	4.093	0.0	1.956	0.729	0.781	11.862	1.181	4.365	9.081
8	16.129	5.890	27. E13E	3.567	0.0	0.921	0.622	0.638	10.515	1.073	3.554	7.147
ç	12.195	7.964	16.397E	3.048	0.0	0.638	₹.615	C.465	5.472	1.240	3.749	7.107
10	17.507	6.865	13.513E	3.602	0.0	0.479	0.383	C.307	3.720	0.936	3.221	5.861
11	12.405	6.20€	14.611E	2.33€	0.0	0.272	0.405	6.404	2.819	1.125	2.523	5.023
12	10.430		12.221E	2.221	0.0	0.217	0.375	0.462E	2.275	1.187	2.196	4.753
13	10.101	5.426E	51.447E	2.066	0.0	0.288	0.120	0.242E	1.904	1.462	2.106	4.803
14	25.313		20.531E	1.832	0.0	0.035	0.019	5.378E	1.823	0.845	1.967	14.225
15	23.910	4.813E	12.714E	1.699	0.0	0.001	0.087	0.657E	1.713	1.222	1.913	18.273
16	15.659	4.419E	11.005E	1.15€	0.0	0.0	0.305	1.365E	2.594	1.333	2.512	9.536
17	11.441	4. 120E	E.566E	0.657	0.0	0.0	ŭ.403	0.71SE	9.114	0.581	2.955	7.995
18	10.290	4. 81 8E	€.165	0.522	0.0	0.0	8.409	1.525E	6.355	0.459	3.414	7.119
19	9.135	5.789	7.908	0.407	0.0	0.0	0.536	45.861E	9.455	0.712	2.554	6.114
20	8.739	14. 371	7.425	0.266	0.0	0.0	0.321	70.678	16.554	0.890	2.488	5.969
21	6.804	8.196	6.849	0.184	0.0	0.0	0.124	16.149	6.825	0.527	2.346	10.328
22	€.280	6.401	22.675	0.122	0.0	1.090	0.019	5.735	4.395	0.894	2.743	7.663
23	7.961	5.786	16.491	0.800	9.0	4.197	0.0	3.530	3.049	0.762	9.459	5.632
24	11.185	38.653	7.368	2.685	0.0	1.672	0.0	2.764	2.500	0.907	11.889	5.426
2.5	14.117	18.777	7. 392	1.426	0.0	0.544	0.0	5.120	2.329	3.525	12.339	€.567
26	9.412	10.705	6.745	0.689	0.0	0.620	0.C	6.445	2.105	8.400	6.734	6.369
27	10.116	13.742	5.589	0.372	0.0	0.251	0.0	5-474	1.556	3.951	4.466	5.835
28	11.933	16.510	5.592	0.196	0.0	0.199	0.560	2.568	1.756	2.612	3.744	5.183
29	€.745		5.379	0.100	4.657	0.181	0.572	2.163	1.460	2.012	3.465	4.900
30	7.141		5.366	0.048	1.852	0.273	0.592	1.808	1.581	1.807	7.559	€.55€
31	7.765		29.186		1.321		1.285	1.428		1.643		7.751
MEAN	14.912	9.272	16.007	2.838	0.257	0.573	0.702	6.061	5.397	1.651	5.342	6.407
INCHES	2.795	1.570	3.000	0.515	0.048	0.104	0.132	1.136	0.579		0.565	1.576
VA ATE	1.953	2.654	2.731	2.354	1.284	0.498	0.564	1.084	9.601		0.420	0.558

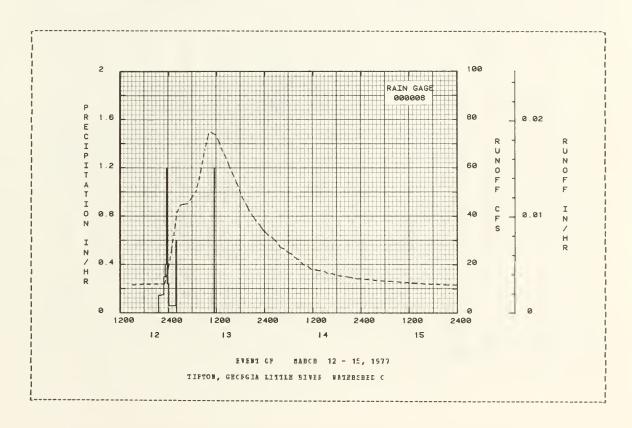
Station Averages: 10 yr beginning 1966. Conversion Factor: CPS to IN/DAY, multiply by 0.00604717.

7 	SELECTED BONG	OPP EVENT			TIETCH	, GECECIA	IIIILE E	IVER BATE	ESEED C	
ANTI	CECENT CONDI				IKEALI			BUNCE		
Eate Bo-Da	Rainfall ny (irches)	Funcff (inches)	Dat∈ Mo-Day	Time cf Lay	Intersity (in/br)	Acc. (inches)	Dat∈ Mc-Day	Ti∎€ of Cay	Fat∈ (cfs)	Acc. (inches)
				ng cr		45 4633				
			EVE		PABCB 12 -	15, 15//				
	EG 000008		2 45	EG 000						
3+12	0.0	0.047	3-12	2129	0.0	0.0	3-12	1500	11.636	0.0
				2210	0.1463	C-10		2300	11.974	0.0013
				2250	0.1500	0.20		2400	18.867	0.0016
				2310	0.3000		3-13		26.095	0.0022
TERSI	PD CCNLITIONS:			2325	0.4000	C - 4C		135	35.510	0.0087
	ial, 1.6%; cro			2 340 2400	1. 2000	0.70		205	41.572	0.0095
69: I	asture, 31.7%;	•		2400	0.2400	G. 78		300	44.713	0.0105
εr. 2	.9%: roads, 1.	3%:	3-13	5	0.2400	0.60		445	45-244	0.0152
	32.9%.			150	0.0571	0.50		540	47.386	0.0162
				200	0.6000	1.00		645	50.109	0.0172
				1125	0.0	1.00		655	50.658	0.0183
				1130	1.2000			805	58.560	0.0344
								500	67.426	0.0358
								905	67.426	C.0372
								1000	74.181	0.0535
								1035	74.805	0.0551
								1145	73.557	0.0557
								1230	71.084	0.0612
								1330	66.822	0.0626
								1425	63.831	0.0640
								1525	59.719	C.0652
								1620	56.265	0.0664
								1720	52.321	0.0675
								1620	47.927	0.0665
								1535	44.185	0.0654
								1333		
								2010	42.050	0.0703
								2100	40.028	0.0712
								2150	37.999	0.0720
								2255	36.003	0.0727
								2350	33.55€	0.0735

Conversion Eactor: CPS to IN/BE, multiply by 0.000251965.

ENT CONDI			TIFICE					
			NEAL! Intersity	ACC	rate	Fine		Acc.
			(in/hr)					
	EVERT CE	EDIKE	12 - 15,	1977 (CC)	(laontr			
					3-13		33.556	6.0745
					3-14	5.5	32.114	0.0755
						150	21.163	U.C775
						255	25.265	0.0787
						355	26.956	6.0793
						445		0.0615
						540	25.203	0.0821
						645	24.323	0.0836
						730	22.895	0.0841
						830	21.966	0.0655
						915	20.609	0.0855
						950	19.726	0.0863
						1045	19.295	0.0679
						1140	16.025	0.0663
						1300	17.611	0.0887
						1455	17.201	0.0905
						1525	16.357	0.0909
						1720	16.002	0.6935
						1725	15.612	0.0939
						1915	15.227	0.0542
						2030	14.846	0.0945
						2145	14.470	0.0948
						2300		0.0951
						2400	14.055	0.0567
					3-15	200	13.733	0-0550
						900	13.372	0.0992
						600	13.015	0.0995
						1000		0.6556
						1400	12.316	0.1001
						1600	11.974	0.1003
						2 100	11.636	0.1046
						2900	11.636	0.1053

Conversion Factor: CFS to IN/BE, multiply by 0.000251965.



74.004- 3

TIETCH, GEORGIA IITTLE BIVER WATERSBED E

LCCATION: Turner County, Georgia; approximately 7 miles south of Asbburn on County Road S1589; little Fiver, Withlacocchee River Sub-basin, Euwanee Fiver Easin. Iat. 31 deg. 36 mir. 17 sec., Long. 83 deg. 37 miu. 53 sec.

28378.00 acres 44.34 sg. miles

	KTHL:	PERCIP.	11A11CN	AND BUNC		=) 	1	IFTCE, CF		TLL BIA	CE WAI	CDSEFL I		
		Jan	P∈b	Par	Apr	Ea y	Jun	Ju1	₽u 9	S€F	Cct	FCV	D∈c	Annual
1977	P Q	5.07 4.305	2.70 1.495	€.76 4.224	1.50 0.831	2.70 0.033	3.09 0.001	6.20 0.054		4.95 0.863	1.20 0.027	4.13 0.498	3.94 1.301	48.52 13.810
VA AF	P C	4.0C 1.EC4	4.55 2.495	6.27 2.888	3.64 2.359	4.80 1.253	4.50 0.778	6.01 0.704		2-96 0- 563	1.95 0.159	2.50 0.302	4.07 0.965	51.13 15.282
	ANNU	DAL EZXII Ezxii Discha	 Bu 10	HARGE (in			axigus	Volume fo	r Selecte	d Time	Interva	 l		 E Lays
						Wcl.	rat c						icl. Da	
 1577		Date 1	Pate	Dat∈ Vc.	l. Date	0.053		Vol. Ca	t∈ Vol.		Vćl.	Date i		t∈ ¥ol.
 1977		Date 1	Pate	Dat∈ Vc.	l. Date 127 3- 7	0.053	3- 7	Vol. Ca	7 0.30E		Vćl.	Date i		t∈ ¥ol.

1977	DA	ILY PBECI	HOLLELIA	(INCHES)		11110	N, GECEGI	A IITTIE	BIVEB	WATERSFEE E		
Day	Jan	Feb	gar	≜ pr	Bay	Jur	Jul	1119	Sep	Cct	₽ C A	Ç€C
1	0.0	0.0	0.0	0.03	0.0	0.06	0.0	0.05	0.03	0.0	0.0	0.12
2	0.11	0.0	0-9	0.0	0.0	0-0	1-19	0.28	0.40	0.0	0.0	0.0
	1.84	0.26	0.0	0.0	0.0	0.0	0.15	0.06	0.60	0-0	0.04	0.01
4 5	0.0	0.03	1.69 0.19	0.0 0.69	0.0	0.0 0.0	0.04	0.41	0.39 0.61	0.0	2-41 0-01	0.0 0.56
5	0.02	0.0	0.19	0.05	0.0	9.0	0.44	0.02	0.01	0.0	0.01	U-36
€	0.45	0.0	1 -64	0.0	0.05	0.49	0.0	0.0	3.43	0-0	0.05	0.0
7	0-15	0.0	0.24	0.01	0.0	0.15	0.0	0.0	0.60	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.01	0.0	0.0	0.0
	0.39	0.)	0.0	0.0	0.0	0.0	0.01	0.3	9-01	0.07	0.0	0.03
10	0.06	0.0	0.25	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
11	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.04	0.0	0.0
	0.0	J.0	0.62	0.0	0.0	0.09	0.0	0.01	0.0	0.08	0.0	0.0
	0.01	0.19	0.17	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0
	1.31	9.)	0.0	0.0	0.0	0.01	0.0	0.39	0.97	0.0	0.0	1.34
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.01
16	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.04	0.35	0.0	0.13	0.0
	0.0	0.0	0.0	0.0	0.03	0.69	0.0	0.16	0.14	0.0	0-07	0-45
	0.0	0.01	0.0	0.0	0.0	0.51	0.57	0.68	0.53	0.0	0.0	0.02
	0.0	0.36	0.0	0-0	0.0	0.05	0.0	0.92	0.28	0.0	0.0	0.0
20	0.0	0.03	0-07	0.0	0.15	0.01	0.0	0.01	0.01	0.0	0.0	0.35
	0.0	0.01	0.82	0-0	0.02	0.01	0.0	0.0	0.0	0.05	0.0	0.01
	0.0	0-01	0.12	0.03	0.13	0.84	0.13	0.01	0.0	0.0	0.11	0.0
	0.0	0.01	0.0	0.72	0.0	0.34	0.0	0.0	0.0	0.0	0.21	0-0
	0.50	0.98	0.0	0.02	0.64	0.0	0.0	0.41	0.0	0.0	0.45	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	0.85	0.03	0.55
	0.0	0.0	0.0	0.0	0.46	0.0	0.08	1.36	0.01	0.01	0.0	0.0
27	0.13	0.81	0.0	0.0	0.05	0.0	1.90	0.02	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.30	0.0	0.85	0.01	0.0	0.0	0.0	0.0
	0.0		0.0	0.9	0.25	0.43	0-01	0.29	0.0	0.0	0.0	0-07
	0.0		0.0	0.0	0.09	0.01	0.53	0.05	0.18	0.06	0.62	0.42
31	0.10		0.94		0.50		0.05	0-0		0.0		0.0
TCTAL	5.07	2.70	6.76	1.50	2-70	3-65	6.20	6.28	4.95	1-20	4.13	3.94
STA AV	4.00	4.59	6.27	3.64	4. 60	4.50	6.01	5.83	2.96	1.95	2.50	4.07

Gaging: Values are weighted using Reciprocal Distance Squared Fethod from 17 recording gages. Station Averages: 5 yr beginning 1969.

Natershed Conditions: Residential, 1.8%; forest, 43.7%; commercial, 1.1%; water, 1.6%; crops, 32.3%; wetland, 1.4%; pasture, 17.1%; roads, 0.6%.

Maps: Topographic/Composite - Bydrologic Lata for Experimental Agricultural Watersheds in the United States, 1975, USIA Bisc. Fub. 1446, pages 74.005-33 and 74.002-22.

Precipitation: Fecords began January 1968. Values are weighted using the Beciprocal Distance Squared Method from 17 recording gages. SIA AV values are lased on 9 yr beginning 1866.

Funoff: Fecords began January 1, 1969.

Long-Term Frecipitation: Bational Weather Service records at Tiftor, Georgia.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia Institute of Technology, and Biddle Scuth Georgia Soil Conservation District

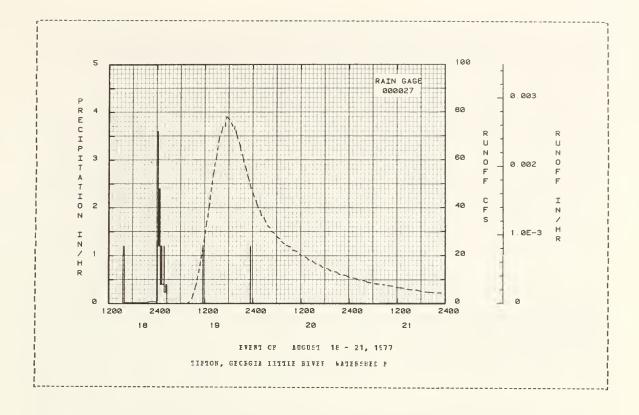
19	77	BEAN DAIL	Y DISCHAR	GP (CES)		TIFT	N, EFCFG	IA LITTLE	BIVES	WATERSHED I	F	
Day	Jan	P∈b	Bar	Apr	łay	Jur	Jol	Àυς	\$€ ţ	Cct	N C V	£€c
1	125.71	69.48	111.69E	170.51	1.18	0.0	0.0	5.74	12.36	3.60	0.96	43.18
2	108.65	68.63	86.62B	131.64	0.61	0.43	0.04	2.64	8.60	3.08	0.85	47.71
3	288.64	65.82	58.618	74.79	0.28	0.83	25.09	2.29	11.45	3.05	0.69	36.15
4	541.20	76.38	150.74B	51.32	0.42		5.23	1.89	28.60	2-44	26.55	25.65
Ê	293.73	84.41	386.17	88.00	0.41	0.02	2.01	2.32	35.18	1.57	107.87	34.22
E	167.04	74.46	349.95	98.63	0.37	0.0 T	1.15	1.62	46.79	1.13	85.74	48.60
7	201.88	60.44	672.69	64.50	0.18	0.41	0.05	0.84	85.84	1- 11	45.75	32.34
8	235.30	51.40	415.57	48.44	0.05	0.00	0.0	0.41	123.14	1.03	31.16	27.68
5	180.22	47.98	224.71	32.37	0.91	0.0	0.0	0.12	96.26	0.61	20-19	22.34
10	172.41	46.05	157.79	25.00	0.0 I	0.0	0.0	0.02	74.78	0.44	16.41	19.9€
11	189.72	44.16	153.85	20.43	0.0	0.0	0.0	0.00	39.52	0.37	11.41	18.11
12	149.73	42.37	152.12	16.23	0.0	0.0	0.0	0.0	21.28	0.30	8.50	15.48
13	117.78	43.98	34€.26	16.23	0.0	0.0	0.0	0.0	15.66	0.26	6.84	14.60
14	182.26	51.75	212.80	14.63	6.0	0.0	0.9	0.0	13.02	0.23	5.97	27.65
15	345.98	56.37	157.25	11.69	0.0	0.0	0.0	0.0	11.10	0.19	5.93	94.48
16	268.99	43.60	114.53	9.41	0.0	0.0	0.0	0.0	18.07	0.16	5.78	108.42
17	169.69	36.13	93.61	7.26	0.0	0.0	0.0	0.0	21.84	ð.11	7.83	83.75
18	126.46	32.65	83.56	6.01	0.0	0.0	0.0	0.0	34.32	0.09	10.43	76.36
19	106.55	32.64	76.23	5.40	0.0	0.0	0.5	32.66	137.66	0.08	10.11	67.65
20	98.00	49.73	70.48	6.13	0 - 0	0.0	0.0	22.24	62.57	0.05	7.42	57.97
21	95.41	57.19	68.09	5.19	0.0	0.0	0.0	6.51	33.99	0.02	6.30	72.00
22	91.39	46.74	138.50	4.05	0.0	0.0	D.0	2.54	26.34	9.01	5.96	66.29
23	£6.18	36.53	169.41	4.14	0.0	0.3	0.0	1.47	18.02	0.00	9.24	49.98
24	91.50	83.76	124.48	21.05	0.0	0.0	0.0	2.57	13.18	0.01	16.78	42.02
25	125.07	133.83B	83.96	31.54	0.0	0.0	0.0	6.19	10.€4	0.09	43.11	46.95
2€	125.95	113.49E	63.27	14.37	0.0	0.0	0.0	6.72	8.36	1. 66	37.30	70.44
27	103.15	93.44E	54.63	7.62	0.0	0.0	0.0	33.14	6.64	3.65	19.67	73.03
28	93.34	135.76E	48.85	4.74	0.0	0.0	5.98	32.58	5.22	2.68	12.65	62.34
25	86.69		45.21	2.80	0.0	0.0	9.26	42.66	3.92	1.45	10.58	44.07
30	76.38		44.74	1.75	0.0	0.0	3.84	19.52	3.50	1.29	11.31	45.76
31	69. 0 2		70.84		0.0		E.19	17.14		1.22		64.27
AB	165.59	63.67	162.48	33.05	0.12	0.05	2.09	7.90	34.29			
CHES	4.305	1.495	4.224	0.831	0.003	0.001	0.054	0.205				1.30
7 7 4	1.804	2.495	2.886	2.359	1.253	0.778	0.704	1.012	0.563	0.159	0.302	0.96

Station Averages: 9 yr beginning 1969. Conversion Factor: CPS to IN/DAY, multiply by 0.0000838736.

				, GECEGIA				
ANTECEDENT CONDITIONS Late Bainfall Foncff		EA:	IBEALL			FDNCE		
Date Fainfall Foncff Bc-Day (irches) (inches)							Fate (cfs)	
	EVE	FI CF A	DGUSI 18 -	21. 1577				
BG 000027		FG 000						
E-16 Q.O	8-18		0.0	6.0	8-19	210	0.0	0.0
6-19 0.0		1535		0.10		740	G.237	6.6
		1550		0.40		€20	0.859	0.0
		2145		0.50		900	3.008	0.0000
			0.0400	0.59		9.55		0.0000
WATERSHED CCECITIONS:		2400	0.0400	0.00		303	6.000	3.0000
esidential, 1.8%: fcrest,	8-19	10	0.0600	0.60		1055	17.474	0.0001
3.7%; connercial, 1.1%;	0 13	15	3.6000	0.50		1125	22.865	0.0001
ater, 1.8%; crcps, 32.3%;		20	1.1999	1.00		1155	27.703	0.0003
etland, 1.4%; pastore,		25	2.4001	1.20		1220	27.703	0.0004
7.1%; roads, 0.8%.		30	2.4000	1.40		1310	41.980	0.0004
** ix, 10000, 0.0%		-0	2.4000	1.40		13 10	41.960	0.0015
		35	1.1999	1.50		1315	43.909	0.0016
		40	2.4001	1.70		1405	54.379	0.0030
		45	1. 1999	1.66		1410	54.379	0.0032
		50	1.2001	1.50		14.30	56.988	0.0035
		105	0.4000	2.00		1450	61.347	0.0040
								3.00.0
		115	1.2001	2.20		1520	67.560	0.0044
		1.10	0.4000	2.30		1540	70.151	0.0046
		145	0.4000	2.40		1605	71.470	0.0050
		150	1.1559	2.50		1625	74.153	0.0053
		2 15	0.2400	2.60		1700	74.153	0.0068
								,
		230	0.4000	2.70		1715	76.255	0.0074
		1130	0.0			1805	76.858	0.0077
		1135	1.1599	2.80		1830	75.518	0.0075
		2320	0.0			1850	74.153	0.0081
		2325	1.2001	2.90		1915	72.804	0.0083
						1925	74.153	0.0065
						1945	71.470	0.0087
						2010	66.846	0.0065
						2040	€6.288	0.0051
						20 55	63.767	0.0093

Conversion Factor: CFS to IN/BB, multiply by 0.0000349473.

	ENI CONDIT				NFAIL			FUNCI		
Bo-Day	ENI CCNDII Rainfall (icches)	(inches)	Bo-Day	of Cay	Intensity (in/br)	Acc. (inches)		lis∈	āat€ (cfs)	Acc. (inches)
					18 - 21,	1977 (CC)	NTINUFE)			
							8−1 9	2125 2140 2210 2235 2305	81.347 58.566 56.644 53.285 51.051	0.0095 0.0097 0.0098 0.0100 0.0101
							8-20	2330 2400 40 115 150	47.929 45.891 42.938 40.106 38.285	0.0103 0.0104 0.0105 6.0107 0.0109
								210 240 315 340 415	36.516 25.652 33.961 32.322 31.521	0.0110 0.0112 0.0114 0.0115 0.0118
								440 525 555 640 715	29.956 29.193 27.703 26.976 25.558	0.0119 0.0122 0.0123 0.0128 0.0127
								745 820 920 1000 1100	24.867 24.188 23.521 22.221 21.588	0.0128 0.0128 0.0132 0.0132 0.0136
								1140 1210 1315 1355 1455	20.357 19.758 19.171 18.028 17.474	0.0137 0.0137 0.0140 0.0140 0.0143
								1540 1645 1725 1840 1925	16.357 15.874 14.881 14.369 13.418	0.0144 0.0146 0.0147 0.0150 0.0150
							€-2 1	2050 2135 2300 2400 130	12.957 12.088 11.835 10.803 10.401	0.0153 0.0153 0.0158 0.0158 0.0159
								230 420 425 525 830	5.628 9.252 8.688 8.533 8.186	0.0159 0.0182 0.0162 0.0162 0.0183
								835 840 1050 1150 1335	7.845 7.521 7.201 6.587 6.253	0.0185 0.0165 0.0167 0.0188 0.0169
								1445 1650 1800 1920 2105	5.730 5.480 4.946 4.700 4.463	0.0169 0.0172 0.0172 0.0172 0.0172
								2400	4.233	0.0173



74.005- 4

LOCATION: Turner County, Georgia; approximately 3 miles west of Asbburn on State Highway 112; Tittle Fiver, withlaccochee River Sub-basin, Suwanee Biver Easin. Iat. 31 dec. 40 min. 28 sec., Iong. 83 dec. 41 min. 26 sec.

12333.00 acres 19.27 sg. miles

H C	NTHL	Y PFFC1P	ITATICE	AND FONCE	P (INCER	٤)	тт	IFTCE, GI	ECE161 11	TILE EL	FR VAT	EESFEC 3	1	
		Jan	P∈b	far	Agr	tay	Jun	Jul	⊉ug	\$€ È	0ct	N C V	D∈c	≱ coval
1977	P Q	5.05 4.636	2.84 1.763	6.67 4.524	1.66 0.956	1. E € 0.011	2.87 0.005	6.4G 0.008	6.51 0.234	4.75 1.062	1.12 0.03€	3.68 0.434	4.26 1.382	47.69 15.071
VA AFS	P Ç	3.95 1.848	4.42 2.578	€.07 3.164	3.33 2.256	4.74 1.392	4.29 0.836	6.17 0.695	5.76 1.202	2.54 0.539	1.70 0.122	2.65 0.354	4.29 0.528	49.89 15.932
	ANN	UAL SEXI	MOW DISC	HAFGF (in	/br) AND	BAXIBUB	AOTORE	S OF RUNG	CFF (incb	€S) ECB	SELECTE	C TIBE :	INTERVALS	
		Baxi Discha		1 Hour		Bours	6 8c	trs 1	cr Select 12 Hours	1	Day	2 Cay		E Lays
			arge	1 Hour Date Vol			6 8c	trs 1		1				E Days te Vol.
1977		Discha	arg∈ Fat∈		. Date	Bours Vcl.	6 8c Date	trs 1	12 Heurs at∈ Vcl.	1 Dat∈	Day Vcl.	2 Car Cate		t∈ Vol.
1977		Dische Date	arg∈ Fat∈	Date Vol	. Date	Wcl. 0.065	6 8c Date 	trs 1	12 Hours ate Vcl.	1 Dat∈	Day Vcl.	2 Car Cate	vcl. Da	t∈ Vol.

Watershed Conditions: Residential, 0.19; water, 1.0%; crops, 27.1%; wetland, 0.3%; pasture, 169; roads, 0.5%; forest, 54.6%.
Maps: Topographic/Composite - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1975, USCA Bisc. Pub. 1446, pages 74.006-30 and 74.002-22.
Precipitation: Records began January 1968. Values are weighted using the Reciprocal Distance Squared Method from 11 recording gages.
Runoff: Beccrds Legan January 1, 1968.
Iong-Term Frecipitation: National Weather Service records at Tifter, Georgia.

1977	E.	AILY PEEC	ELITATIC N	(INCHES)		TIFT	N, GECBIGA	IITTIE	EIVEE	WATEESEED 1		
Day	Jan	F∈b	far	Apr	May	Jur	Ju1	≱eg	S∈p	Cct	lic v	E∈c
1	0.0	0.01	0.0	0.05	0.0	0.02	0.01	0.10	0.0	0.01	0.0	0.11
2	0.10	0.0	0.0	0.0	0.0	0.0	0.70	0.25	0.36	0.0	0.0	0.0
3	1.72	0.23	0.01	0.01	0.0	0.3	0.28	0.04	0.64		0.04	0.0
5	0.02	0.06 0.01	1.64 0.19	0.0 0.75	0.0	0.0	0.09	0.45	0.61		2.11 0.02	0.0 0.53
3	0.02	0.91	9.15	0.75	0.0			0.01	0.65	0.0	0.02	0.53
6	0.52	0.0	1.60	0.91	0.0	0.45	0.0	0.01	0.45	0.0	0.05	0.01
7	0.14	0.0	0.22	0.02	0.0	0.15	0.0	0.0	0.64	0.0	0.01	0.0
8	0.0	9.01	0.3	0.0	0.0	0.0	0.13	0.0	0.01	0.0	0.0	0.0
S	0.42	0-0	9.01	0.0	0.0	0.0	0.02	0.0	0.0	0.11	0.0	0.0€
10	0.06	0.0	0.22	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0
12	0.01	0.01	0.39	0.0	0.0	0.19	0.0	0.0	9.01	0.14	9.0	0.0
13	0.0	0.25	0.17	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.01	0.0
14	1. 29	0.01	0.01	0.0	0.0	0.01	0.01	0.18	0.0	0.0	0.0	1.53
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.13	0.0	0.0	0.01
1€	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0€	0.46	0.0	0.11	0.0
17	9.0	0.0	0.0	0.0	0.0	0.02	0.0	0.19	0.21	0.0	0.05	0.50
18	0.0	0.01	0.0	0.0	0.0	0.69	0.59	0.72	0.04	0.0	0.01	0.01
19	0.0	0.30	0.01	0.0	0.0	0.96	0.01	0.32	0.24	0.0	0.0	0.0
20	0.0	0.02	0.12	0.0	0.01	0.01	0.0	0.0	0.01	0.0	0.0	0.31
21	0.0	0.01	1.03	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02
	0.0	0.0	0.09	0.0	0.0€	0.65	0.06	0.0	0.0	0.0	0.08	0.0
22	0.0	0.01	0.0	0.80	0.0	0.31	0.01	0.0	0.0	0.0	0.22	0.01
	0.50	1.02	0.0	0.01	0.22	0.01	0.0	0.34	0.0	0.0	0.33	0.0
25	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.38	0.0	0.62	0.03	0.70
26	0.0	0.0	0.0	0.0	0.51	0.0	0.09	1.93	0.03	0.0	0.0	0.0
	C. 14	0.88	0.0	0.01	0.06	0.0	1.67	0.02	0.01	0.0	0.0	0.0
28	0.01	0.3	0.0	0.0	0.13	0.0	1.15	0.01	0.0	0.01	0.0	0.0
2 9	0.0		0.0	0.0	0.33	0.39	0.02	0.32	0.0	0.0	0.0	0.0€
30	0.0		0.0	0.0	0.18	0.0	0.60	0.08	0.23	0.0	0.61	0.42
31	0.12		0.95		0.33		0.05	0.0		0.0		0.0
ICIAI	5.05	2.84	6.67	1.6€	1.86	2.67	6.40	6.51	4.75	1.12	3.68	4.28
STA AV	3.95	4.42	6.07	3.33	4.74	4.29	6.17	5.76	2.54	1.70	2.€5	4.29

Gaging: Values are weighted using Reciprocal Distance Squared Bethod from 11 recording gages. Station Averages: 10 yr beginning 1966.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia
Institute of Technology, and Biddle Scoth Georgia Soil Conservation District

19	 77	MEAN DAIL	Y CISCHAR	E (CFE)		11110	N, CECLI	A LITTLE	BIVEB %	ATFEEFD]		
Day	Jan	F∈b	Bar	Apr	Pay	Jun	Jul	Auç	Set	Cct	BC♥	[ec
1	55.75	36.37	55.66	E0.01	0.30	2.10	0.0	0.0	7.94	2.02	6-44	17.15
2	94.29	33.67	23.04	40.96	0.14	0.65	0.65	0.0	5.12	2.75	0.26	21.24
3	217.85	32.46	32.30	26.30	0.02	0.69	2.38	0.0	9.51	2.10	0.19	14.41
4	241.40	41.98	116.22	23.13	0.0	0.0	0.63	0.0	17.03	1.43	11.03	5.65
<u>.</u>	93.98	40.78	219.52	46.83	0.0	0.0	0.36	0.0	26.79	0.88	34.72%	3.38
€	67.20	32.58	162.22	57.13	0.0	0.0	0.00	0.0	51.92	0.55	32.76F	12.68
7	115.65	27.41	354.57	29.73	0.0	0.0	0.0	0.0	69.90	0.33	20.12£	16.7€
É	101.38	25.51	153.43	20.19	0.0	0.0	0.0	0.0	71.05	0.14	13.25 £	11.29
ç	66.54	24.71	72.88	16.57	0.0	0.0	0.0	0.0	57.91	0.05	9.45	10.66
10	EE. 22	23.78	60.88	13.63	0.0	0.0	0.0	0.0	29.52	0.01	€.06	5.37
11	75.32	23.06	€€.73	12.00	0.0	0.0	0.0	0.0	17.43	0.0	4.€6	7.00
12	58.52	22.48	63.06	10.55	0.0	0.0	0_0	0.0	13.08	0.0	3.69	€.24
13	50.12	28.67	67.95	10.82	0.0	0.0	0.3	0.0	10.97	0.0	E.03	5.55
19	116.67	33.93	84.24	8.20	0.0	0.0	0.0	0.0	9.28	0.0	2.82	26.26
15	206.09	25.74	54.95	6.95	0.0	0.0	0.3	0.0	6.20	0.0	2.47	57.78
16	93.55	21.36	45.16	5.83	0.0	0.0	0.0	0.0	8.95	0 - 0	2.91	49.21
17	61.45	16.78	40.90	4.26	0.0	0.0	0.0	0.0	15.86	0.0	3.46	26.32
18	53.18	18.18	37.59	3.28	0.0	0.0	0.0	0.0	21.92	0.0	4.13	28.96
15	46.20	16.62	35.60	6.11	0.0	0.0	0.0	0.0	20.77	0.0	3.50	31.06
20	46.04	30.92	35.36	3.09	0.0	0.0	0.0	6.0	17.52	0.0	3.26	30.05
21	46.02	28.96	39.08	1.89	0.0	6.0	0.0	0.0	17.29	0.0	2.77	31.25
22	43.57	20.88	116.60	1.30	0.0	0.0	0.0	0.0	11.61	0.0	2.62	2€.26
23	40.9€	18-96	91.63	9.88	0.0	G . 0	0.0	0.0	7.71	0.0	3.69	21.29
24	47.81	55.17	46.68	26.34	0.0	0.0	0.0	0.0	5.45	0.0	10.08	16.80
25	65.54	68.71	34.38	12.3€	0.0	0.0	0.0	0.0	4.32	0.0	13.94	30.34
2€	53.38	41.49	30.03	6.52	0.0	0.0	0.0	0.0	3.60	0.29	6.56	42.76
27	42.52	47.74	27.14	3.73	0.0	0.0	0.0	30.99	2.55	1.61	€.20	36.68
2 €	44.50	81.33	25.04	2.16	6.0	0.0	0.0	43.34	2.58	2.55	5.14	24.41
25	90.59		25.23	1.18	0.0	0.0	0.0	16.12	1.50	1.80	4.52	15.53
30	34.59		23.58	0.55	1.13	0.0	0.0	17.53	1.56	1.20	4.61	25.75
31	34.34		69.98		4.08	5 - 0	0.0	13.45		0.80		35.45
BEAR	77.495	32.991	75.612	16.509	0.183	0.095	0.127	3.514	16.335	0.604	7.504	23.107
INCHES	4.636	1.783	4.524	0.956	0.011	0.005	0.008	0.234	1.062	0.036	0.434	1.382
SIA AV	1.648	2.578	2.184	2.25€	1.392	0.636	0.695	1.202	0.539	0.122	6.354	0.928
			0104									

Conversion Factor: CFE to IM/OAY, multiply by 0.001925515.

77 SELECTED BONOFF EVENT			111168	, ereries		1410 #811		
ANTECEDENT CONDITIONS Cate Bainfall Buncff		E 2 1	BEALL			EURCI	E	
<pre>Tate Fainfall Funcff</pre>	Dat∈	Tim∈	Intersity	Acc.	[at∈	Time	Fat∈	Acc.
Bo-Oay (inches) (inches)	Bo-£ay	of Cay	(in/hr)	(inches)	Bc-Day	of Cay	(cfs)	(irches)
	F V E	SI CF E	AFCB 3 -	9, 1977				
EG 000031		FG 0000						
3-4 0.0	3- 4	914	0.0	0.0	3- 3	855	36.116	0.0
3- 3 0.026		925	0.5455	0.10		1125 1455	33.765	0.0002
		935	0.6000				30.364	
		1ú 10	0.1714	0.36		1640	28.415	0.0018
WATERSBEO CCBITTICHS:		1025	0.4000	0.40		1955	27.155	0.0020
esidential, 0.1%; water,		1045	0.3000	0.50		2400	26.537	0.0022
.0%; crops, 27.1%; wet-		1105	0.3000		3- 4	925	25.926	0.0050
and, 0.3%; pasture, 16%;		1120	0.8000	0.80		1115	31.702	0.0052
pads, 0.9%; fcrest, 54.6%.		1125	1.2000	0.90		1150	42.755	0.0062
		1130	2.4000	1.10		1315	€5.85€	3300.0
		1135	1.2000	1,20		1340	113.537	0.0076
		1145	0.6000	1.30		1420	137.896	0.0094
		1205	1.2000	1.70		1515	154.637	0.0104
		1215	0.6000	1.80		1605	161.240	0.0136
		1305	0.1200	1.90		16 40	171.065	0.0148
	3- 5	1520	0.0	1.90		1735	229.259	
		1525	1.2000	2.00		1820	255.121	0.0180
	3-6	334	0.0	2.00		1915	271.370	0.0158
		735	0.0249	2.10		2000	274.628	0.0271
		1135	0.0250	2.20		2005	277.894	0.0290
		1255	0.0750	2.30		2140	274.626	0.0364
		1310	0-4000	2.40		2230	264.857	0.0381
		1320	0.6000	2.50		2320	256.362	0.0416
		1340	0.3000	2.€0		2400	251.882	0.0367
		1350	0.6000	2.70	3- 5	50	242.176	0.0483
		1420	0.2000	2.80		135	238.941	0.0563
		1440	0.3000	2.90		200	232.483	
		1450	0.6000	3.00		300	229.259	0.0871
		1505	0.4000	3.10		30.5	226.036	0.0686
		1545	0.1500	3.20		440	225.259	0.0702

Conversion Factor: CES to IN/BF, multiply by 0.00008041.

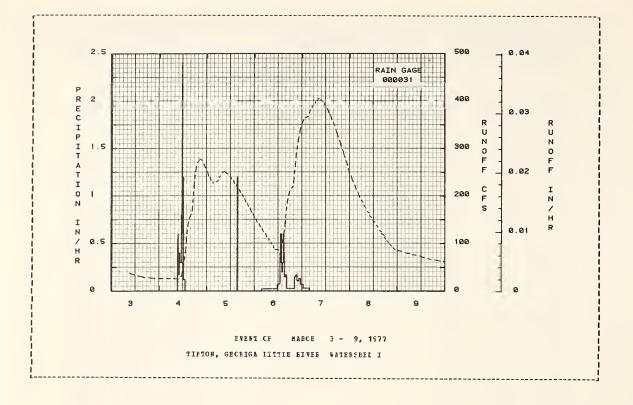
74.006- 2

ARTECEI	EN1 CONDIT	TORS		1153	F A L L			EUNC		
Date Mc-Day	ENI CCNDII Fainfall (itches)	Funcff (inches)	Date Bo-Day	Time of Cay	Intersity (in/br)	Acc. (inches)	Date Mc-Day	Time of Day	Fate (cfs)	Acc. (inches)
					3 - 9,					
			3- 6	1630	0 1310	3 30	3- 5	500	232.463	0 0775
			3 0	20 15	0.1714 0.0255 0.1500 0.1714 0.1091	3.40		£10	232.483 238.941 242.178 248.641	0.0795
				2130	0.1714	3.50		735	242.178	0.0880
								845	251.882	0.0578
				2310	0.1333 0.0720 0.0888 0.0324	03.E		925	248.641 245.407 242.176	0.1011
			3- 7	35	3330.0	3.90		1150	242.176 235.714	0.1125
				340	0.0324	4.00			232.483	
								1350	228.038	0.1235
								1450 1520	222.808 218.388	0.1309 0.1324
								1615	213.140 206.656	0.1381
									203.488	
								18 15 1905	197.018 193.785 187.314 184.078	0.1483
								1935	187.314	0.1527
								2055 2145	177.582 174.329 184.523 181.240 154.637	0.1589 0.1647
								2235 2320	184.523	0.1658
								2400		
							3- 6	45	151.318 144.641 141.275 134.497 131.070	0.1773
								120 220	141.275	0.1/03
								255 355	154.497 151.070	0.1839 0.1892
								535 6 1 5	124.152 120.645 113.537 109.918	0.1949
								710 715	109.918 108.259	0.2000
								825 83 0	102.543 58.775	0.2049
								940 945	98.775 94.941 91.028 87.032	0.2094
								1025	E7.032	0.2108
								1225 1330	85.858 87.032	0.2192
								1420	102.543 120.645	0.2205
								1540	147.988	0.2251
								1545	154.837	0.2261
								1720	167.314 203.488	0.2389
								1750	209.918 218.388	0.2403
									219.567	
								1950	232.483	0.2477
								2035	238.941 264.857	0.2628
									250.982	
								2205 2310	317.375 344.074	0.2728 0.2751
							3- 7	2400 45	354-174	0.2774 0.2798
								120	364.320	0.2023
								305	387.705	0.2948
								3 3 0 4 10	374.513 381.342	0.2971 0.2998
								500 530	364.760 39 1. 623	0.3074 C.3100
								635	355.059	0.3258
								64 0 72 0	358.500 401.955	0.3285 0.3312
								620 910	405.407 401.955	0.3339
								1030 1110	398.500 395.059	0.3473 0.3605
								1150 1235	388.187	0.3631

Conversion Factor: CPS to IN/HB, multiply by 0.00008041.

	LECTED BUR					, GFCFIGA				
ANTECED	ENT CCNET	richs		E A I I	PALL			FURCE	F	
Eat∈ Bo-Da⊽	ENT CCNTI Rainfall (inches)	(inches)	Date Mo-Day	11∎∈ of Day	(in/br)	(inches)	tat∈ Ec-Lay	of Cay	(cfs)	ACC. inches)
			PVERT CF	BARCE	3 - 9,	1977 (CC)	TIBOEL)			
					•		-	4440		0 3053
							3- 7	1410	371.113 360.934	0.3833
								1535	354-174	0.3681
								1625	354.174 347.435	0.3951
								1715	334.024	0.3974
								1805	324.021	0 3996
								1905	314.058	0.4018
								1935	304.141	0.405€
								2035	314.058 304.141 294.286	0.4058
								2125	281.157	0.4117
								2220	271.370 255.121 248.641 238.941 229.259	0.4153
								2320	255.121	0-4170
							3- 8	2400 100	248.641	0.4187
							3- 8	100	226.541	0.4215
								235 315	222.808 213.140 206.696 197.018 190.554	0.4279
								415	206-656	0.4234
								505	157.018	0-4348
								550	190.554	0.43€1
								635	167.314	0.4412
								725	167.314 177.582 174.329 187.798 164.523	0-4424
								820	174.329	0.4462
								850	167.798	0.4493
								945		
								1015	157.941	0.4559
								1105 1140	154.637 147.986	0.4601
								1245	144.641	0-4011
								1325	137.896	0.4559 0.4601 0.4661 0.4669 0.4678
								1425		
					•	•		1505	127-625	0-4750
								1605	124.152	0.4800
								1610	120.645	0.4741 0.4750 0.4800 0.4808 0.4855
								1725		
								1730	113.537	0.4863
								1810	109.918	0.4870
								1850 1930	106.259 102.543	0.4878
								2020	58.775	0.4863 0.4870 0.4878 0.4865 0.4891
								2444		
								2110 2155	54.541	8686-0
								2250	67.032	0.4910
								2400	\$4.941 \$1.026 67.032 65.856	6.4933
							3- 9	225	83.543	0.4989
								425	80.138	0.4994
								625	80.138 79.016	0.5053
								730	76.80€	0.5058
								930 1140	75.712	0.5108
								1340	70.378 68.301 66.259	0.5167

Conversion Factor: CPS to IM/BB, multiply by 0.00008041.



74.006- 5

LCCATION: Torner Connty, Georgia; approximately 3 miles west of Asbtorn on State Highway 32; little Fiver, Withlaccochee River Sub-basin, Suwanee Fiver Pasin. Iat. 31 deg. 41 mir. 32 sec., long. 83 deg. 42 mir. 09 sec.

ABFA: 5466.00 acres 8.54 sq. miles

	THI!	PRECIP.	ITATICN	ARE FUNCE	F (IBCEE	S)		IFICA, GE	CP61W 113	114 51'	VEB WAT	EFSEEC .	J 	
		Jan	P∈b	Par	Apr	₹a y	Jun	Jul	1 u g	£€‡	Oct	K c ▼	D∈C	2 renal
1977	P C	5.03 4.628	2.77 1.697	6.75 4.894	1.54 0.628	1.61 0.000	2.77 0.0	7.05 0.0	7.12 0.437	5.07 1.466	1.13 0.030	3.31 0.327	4.39 1.272	48.55 15.80J
STA AV	P Q	4.05 1.801	4.44	6.17 3.299	3.30 2.216	9.77 1.424	4.31 0.844	6.03 0.586		2.54 3.436	1.71	2.67 0.304	4.33 0.663	45.78 15.437
	ANNI	IAT. MAKTI	MUN ULSC		/hrs ANT	MAXTHER	2001002	S OF BUNC	FF (inche	s) FCF	SETECTE	r grar		
		Bexis Cische		1 Bour		i	axisus	Vclure fo	r Selecte	d Time	Interva	 1		 & Lays
		Baxis	un arg∈		2	i	axisur 6 Ec	Tclure fc urs 1	r Selecte	d Time	Int∈r∀a Day	 1	 у £	
1977		Bexie Cische	um arg∈ Bat∈	1 Bour	2 . [ate	Honrs Vol.	laxisus 6 Hc Date	Volume fours 1	r Selecte 2 Eours te Vol.	d Time 1 tate	Interva Day Vol.	l 2 Da Date	ys Vcl. Oa	E Tays
1977		Baxie Cische Date l	um arg∈ Bat∈	1 Bour	2 . Eate	Honrs Vol. 0.074	faxinum 6 Hc Date	Volume fours 1	r Selecte 2 Fours te Vol.	d Time 1 tate	Interva Day Vol.	l 2 Da Date	ys Vcl. Oa	E Tays

Katershed Conditions: Residential, 0.3%; water, 0.8%; crops, 26.3%; wetland, 0.1%; pasture, 15.5%; roads, 0.5%; forest, 56.1%.

Haps: Topographic/Composite - Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1575, USGA Miscs. Fub. 1446, pages 74.007-31 and 74.002-22.

Precipitation: Records began January 1568. Values are weighted using the Reciprocal Distance Squared Method from 15 recording gages.

Ennoff: Records tegan January 1, 1568.

Long-Term Frecipitation: Mational Weather Service records at Tiftor, Georgia.

1977	C	AILY PEECI	FITATICE	(INCHES)		TIFT	R, CECEG	12 111111	FIVES W	PTERSEED J		
Lay	Jan	₽eb	Bar	Apr	la y	Jur	Ju1	Aug	S∈p	Cct	B C V	Ľ€C
1 1 2 1 3 1 4 5 5	0.0 0.10 1.68 0.0 0.02	0.0 0.0 0.24 0.07	0.0 0.0 0.02 1.60 0.20	0.0€ 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.01 0.0 0.0 0.0 0.0	0.01 0,63 0.42 0.12 1.01	0.13 0.26 0.02 0.67 0.01	0.0 0.37 0.62 0.69 0.76	0.01 0.0 0.0 0.0	0.0 0.0 0.02 1.82 0.02	0.10 0.0 0.0 0.0 0.0
6 7 6 9	0.54 0.13 0.0 0.41 0.06	0.0 0.0 0.0 0.0	1.62 0.22 0.0 0.0 0.0	0.0 0.03 0.0 0.0	0.0 0.0 0.0 0.0	0.51 0.14 0.C 0.0	0.0 0.0 0.14 0.01	0.01 0.0 0.0 0.0	0.46 0.71 0.02 0.0	0.0 0.0 0.0 0.13	0.65 0.0 0.0 0.0	0.0 0.0 0.0 0.07 0.07
1 1 11 1 12 1 13 1 14	0.0 0.02 0.0 1.31	0.0 0.0 0.27 0.0 0.0	0.01 0.42 0.17 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.08 0.0 0.01	0.0 0.0 0.0 0.0	0.01 0.0 0.01 0.11	0.0 0.0 0.0 0.0	0.02 0.17 0.0 0.0	0.0 0.0 0.01 0.0	0.0 0.0 0.0 1.52
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.31 0.01	0.0 0.0 0.0 0.01 0.16	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.91 0.66 0.07	0.0 0.0 0.56 0.01	0.05 0.09 0.72 0.28 0.0	0.46 0.25 0.03 0.29 0.02	0.0 0.0 0.0 0.0	0.13 0.06 0.0 0.0	0.0 0.56 0.0 0.0 0.32
21 22 23 24 25	0.0 0.0 0.0 0.4 8	0.01 0.0 0.01 1.04 0.0	1.11 0.09 0.3 0.0	0.0 0.0 0.72 0.01 0.0	0.07 0.03 0.0 0.13	0.0 0.32 0.54 0.01	0.05 0.05 0.01 0.0	0.0 0.0 0.0 0.30 1.43	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.01 0.78	0.0 0.08 0.23 0.23 0.02	0.02 0.0 0.01 0.0
26 27 28 29 30	0.0 0.14 0.0 0.0 0.0 0.0	0.0 0.81 0.0	0.0 0.0 0.01 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.69 0.06 0.02 0.31 0.17	0.0 0.0 0.0 0.40 0.01	0.07 1.95 1.33 0.02 0.68 0.04	2.57 0.02 0.01 0.31 0.10 0.0	0.06 0.01 0.0 0.0 0.23	0.0 0.0 0.01 0.0 0.0	0.C 0.0 0.0 0.0 0.6	0.0 0.0 0.0 0.05 0.41
TCTAL STA AV	5.03 4.05	2.77 4.44	6.75 6.17	1.54 3.30	1.61 4.77	2.77 4.31	7.06 6.03	7.12 5.47	5.07 2.54	1.13 1.71	3.31 2.67	4.29 4.23

Gaging: Values are weighted nsing Reciprocal Distance Sgnar∈d Bethod from 15 recording gages. Station Averages: 10 yr beginning 1960.

In Cooperation with University of Georgia College of Agriculture Experiment Staticus, Georgia Institute of Technology, and Middle Scuth Georgia Scil Conservation District

19	77	MEAN DAII	Y EISCHABO	E (CFS)		TIPIC	N, GECFG	IA IITTIE	BIVEB 1	MITTERE J		
Da y	Jan	F∈b	Bar	Apr	äay	Juz	Jv1	109	Sep	Cct	Nev	E∈c
1	25.54	15.24	24.23	38.86E	0.01	0.0	0.0	0.0	3.09	1.10	0.14	5.96
2	18.29	13.39	13.22	15.86E	0.00	0-0	0.3	0.0	2.16	1.11	0.12	7.54
.3 4	95.74	12.98	11.42	11.21E	0.0	0.0	0.0	0.0	5.17	0.7€	0.15	4.31
4	197. 13	18.29	48.97	6.86E	0-0	0.0	0.0	0.0	11.39	0.47	4.29	2.57
5	44.41	16.75	111.67	26.66E	0.0	0.0	0.0	0.0	32.04	0 - 27	17.18	2.71
6	31.59	12.36	74.51	25.04E	0.0	0.0	1-0	0.07	47.27	0.16	15.88	6.74
7	56.42	10.21	172.77	10.14	0.0	0.0	0-0	0.20	47.21	0.06	5.17	7.40
8	51.66	9.52	70.35	7.20	0.0	0.0	0.0	0.01	53.95	0.04	2.71	3.22
S	31.01	9.16	35.23	5.66	0.0	0.0	0.0	0.0	30.49	0.03	1.94	2.39
10	46.23	8.69	29.17	4.49	0.0	0.0	0.0	0.0	12.99	0.02	1.59	2.13
11	E9.57	8.35	34.08	3.92	0.0	0.0	0.0	0.0	8.42	0.0 T	1.19	1.84
12	26.05	8.27	29.83	3.41	0.0	0.0	0.0	0.0	6.30	0.00	0.91	1.66
13	22.18	12.39	51.85	2.86	0.0	0.0	0.0	0.0	5.03	0.04	0.74	1.64
14	53.79	13.61	44.79	2.42	0.0	0.0	0.0	0.0	4-44	0.06	0.63	12.55
15	104-01	9.31	24.71	1.96	0.0	0.0	0.0	0.0	3.71	0.04	0.60	31.79
16	44.61	7.48	20.10	1.44	0.0	0.0	0.0	0.0	3.64	6.01	0.62	20.24
17	28.27	6.50	16.12	1.03	0-0	0.0	0.3	0.Ú	7.74	0.0	0.89	6.70
18	23.76	6.34	16.40	0.78	0.0	0.0	0.0	0.0	12.39	0.0	1.12	13.21
19	21.05	6.52	15.35	0.74	0.0	0.0	0.5	0.0	10.01	0.0	0.93	16.56
20	20.04	13.01	15.15	0.56	0.0	0.0	0.0	0.0	10.49	0.0	0.77	9.67
21	19.58	10.55	18.64	0.35	0.0	0.0	0.0	0.0	3.46	0.0	0.66	11.54
22	18.49	7.03	70.37	0.23	0.0	0.0	0.0	0.0	4.63	0.0	0.66	10.64
23	17.25	5.98	46.19	3.05	0.0	0.0	0.0	0.0	2.75	0.0	1.25	7.19
24	21.71	27.56	19.66	8.06	0.0	0-0	0.0	0.0	1.79	0.0	3.69	6.14
25	32.32	36.08	15.21	3.10	0.0	0.0	0.0	0.05	1.45	0.0	3.59	12.94
26	22.55	14.20	12.98	1.33	0.0	0.0	0.0	1.20	1.19	0.0	2.43	23.28
27	17.81	24.18	11.39	0.66	0.0	0.0	0.0	46.35	0.99	0.51	1.54	14.49
28	19.68	45.80	10.27	0.31	0.0	0.0	0.0	29.30	0.82	0.73	1.16	8.39
29	18.98		10.00	0.13	0.0	0.0	0.0	6.71	0.58	0.43	0.95	7.13
30	13.64		9.46E	0.05	0.0	0.0	0.0	10.00	0.46	0.26	1.19	10.83
31	14.03		37.77E		0.0		0.0	6.48		0.19		16.34
MEAN	35.770	13.919	36.255	6.342	0.001	0.0	0.0	2.238	11.373		2.502	9.424
INCHES	4.626	1.697	4.894	0.826	0.000	0.0	0.0	0.437	1.466	0.030	0.327	1.272
STA AV	1.801	2.623	3.299	2.218	1.424	0.644	0.566	0.963	0.436	0.079	0.304	0.863

Ctation Averages: 10 yr beginning 1968. Conversion Eactor: CES to IN/LAY, multiply by 0.00435449.

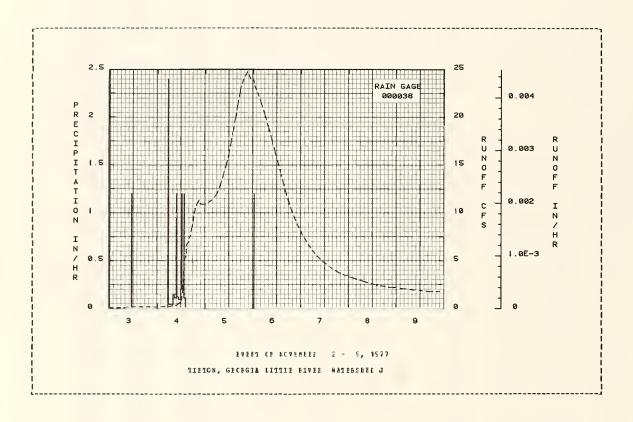
WALECEDBRI CCMDI				BAINEALL			FUBCE		
Eate Rainfall Mo-Day (inches)	Runcff (inches)					Late	Time of Day	Eate	Acc.
ro-nay (Inches)	(Inches)	80-D	ay or ra	y (in/hr)	(IUCD62)	ec-ray	or ray	(cfs)	(irches)
			EVENT CE N	OVENEER 2	- 5, 1977				
FG 000038			EG O	30038					
11-3 0.0		11-	1055	0.0	0-0	11- 2	2400	0-104	0.0
11- 2	0.001		1100	1.1999	0.10	11- 3	735	0.126	0.0001
		11-	512	0.0	0.10		1120	0.179	0.0001
			515	2.0001	0.20		2400	0.151	0.0002
			520	2.4000	0.40	11- 4	540	0.210	0.0002
ATERSHED CONCITIONS	:								
sidential, 0.3%; wa			525	1.2001	0.50		925	0.325	0.0002
8%: CICES, 26.3%: W	et-		530	1.1999	0.80		1145	0.663	0.0002
nd, 0.1%; pasture,			750	0.0429	0.70		1210	0.856	0.0002
ads, 0.9%; forest,			830	0.1500	0.60		1300	2.364	0.0003
,,			925	0.1091	0.50		1325	5.170	0.0003
			940	1.2000	1.20		1420	5-448	0.0005
			950	0.6000	1.30		1440	6.661	0.0006
			1040	0.1200	1.40		1540	6.990	0.0012
			1145	0.0923	1.50		1545	7.330	0.0013
			1215	0.2000	1.60		1640	7.675	0.0018
			12.13	002000			10 /4	,,,,,	000010
			1220	1.2001	1.70		1705	6.413	0.0019
			1250	0.2000	1.60		1740	8.756	0.0023
			1315	0.2400	1.50		1805	9.597	0.0024
			1320	1-2001	2.00		1625	10.015	0.0026
			1415	0.1091	2.10		1900	10.445	0.0027
		11-	6 25	0.0	2.19		1940	10.867	0.0029
			30	1.2001	2.20		2055	11.341	0.0031
							2125	10.867	0.0032
							2400	10.867	0.0083
						11- 5	315	11.341	0.0065
							510	11.806	0.0067
							625	12.266	0.0089
							715	12.778	0.0091
							800	13.263	0.0093
							845	13.800	0.0095

ANTICITENT CONTITIONS Late Fainfall Funcff Bo-Day (inches) (inches)	Dat∈ Mo-Day	FAII Time of Cay	BEALI Intensity (in/br)	Acc. (inches)	fat∈ Ec-Day	FUBCEE Time of Day	Fate (cfs)	acc. (inct∈s)
			2 - 9,					
			2 2,		11- 5	925 1015 1055 1130 1205	14.321 14.876 15.432 16.004 16.550	0.0057 0.0055 0.0101 0.0104
						1205 1240 1310 1345 1420 1450	17.189 17.803 16.451 19.072	0.0109 0.0111 0.0114 0.0117 0.0120
						1525 1555 1630 1710 1750	20.401 21.066 21.750 22.507 23.235	0.0123 0.0126 0.0129 0.0132
					11- 6	1900 2100	23.966	0.0139 0.0143
					11- 6	210	22.507 21.790 21.066 20.401 19.730	0.0216 0.0219 0.0222 0.0225 0.0226
						720 815 905 550		0.0231 0.0234 0.0237 0.0239 0.0242
				đ		1120	16.004 15.433 14.876 14.331	0.0244 0.0247 0.0249 0.0251 0.0253
						1455 1530 1610 1650		0.0255 0.0257 0.0259 0.0281
						1615 1900 1945	10.867 10.445 10.015 5.597	0.0265 0.0266 0.0268
					11- 7	2210 2300 2400	6.796 8.413 8.040 7.679	
						250 350 455 600 705	6.990 6.881 6.343 6.035 5.737	0.0278 0.0279 0.0280 0.0281 0.0262
						620 940 1100 1245 1415	5.448 5.170 4.901 4.642 4.352	0.0282 0.0283 0.0284 0.0285
						1555 1740 1935 2155 2400	4.151 3.919 3.695 3.481 3.481	0.0286 0.0267 0.0287 0.0288 0.0301
					11- 6	35 355 640 940 1245	3.274 3.076 2.867 2.704 2.530	0.0301 0.0302 0.0302 0.0303 0.0303
					11- 9	1640 2105 2400 330	2.364 2.204 2.204 2.053 1.908	0.0304 0.0304 0.0316 0.0316

Conversion Factor: CFS to IB/BB, multiply by 0.00018143.

1977 SELECTED	RIVIT TACKUS			TIFTCE	, GECFGIA	IITTLE B	IVER WATE	FSEED J		
ANTECEDENT CC Late Bainfa Mo-Day (irche	1 Funcff	Dat∈ Mo-Day	FA: Time of Cay	INFALL Intensity (in/br)	Acc. (inches)	Dat∈ 8c-Day	EDECE Time of Day	F Bate (cís)	Acc. (inches)	
!		EVENT CE	KCVEMBEF	2 - 9,	1977 (CC	NTINOEC)				
						11- 9	1635 2400	1.770	0.0317 0.0340	

Conversion Factor: CES to 18/8F, multiply by 0.00018143.



LCCATION: Inrner County, Georgia; approximately 2 miles west of Asbloro on State Highway 12; Newell Franch, Withlaccochee Biver Sub-basin, Sowanee Fiver Easin. Iat. 31 deg. 41 mir. 46 sec., Iong. 83 deg. 41 mir. 52 sec.

AEFA: 4115.00 acres 6.43 sg. miles

£C	MIBI	PEECIP:	ITATICN	ABE FONC	FP (INCH	ES)	ı	IFICA, GI	CECIV II	ITLE BIV	EE SAT	EFSEEC	ř		
		Jan	F∈b	řar	Apr	ža y	Jun	Jul	2ng	Set	Oct	P C A	D€C	1	rrpal
1977	P C	5.02 4.458	2.96 1.959	6.57 4.268	1.69 1.035	1.22	2.57 0.0	6.55 0.003	4.93 0.011	5.14 0.666	1.10 0.007	3.65 0.353			6.39 4.209
VE ETS	P C	3.96 1.759	4.44 2.523	6.11 3.060	3.29 2.174	4.62 1.270	4.34 0.806	6.14 0.697	5.99 1.317	2.48 0.456	1.67 0.117	2.66 C.287			0.01
	ABB			BABGE (i	n/hr) AN				IF (inch				JMTEFVA	LS	
		Baxin Lischa Dat∈ l	arg∈	1 Hopr Cate Vo		8cors Vcl.	6 Bc	DIS	r Selecto 12 Bonrs ate Vol.	1	Day Vol.	2 Da		£ I Dat∈	ays Vcl.
1977		3- 7 (0.028	3-70.	028 3- 7	0.055	3- 7	0.163 3-	7 0.31	£ 3- 6	0.560	3- 6	0.852	3- 4	1.991
						EAXIEUES	PCE FE	FICE CF E	SECCEE						
		4-14 (1975	0.094	4-14 0. 1975	093 4-14 1975		4-14 1975		14 0.54	4-14 1975	1.454	4-14 1975	1.909	4-10 1975	3.539

Watershed Conditions: Water, 1.0%; crcps, 29.8%; wetland, 0.1%; pasture, 12.6%; roads, 0.7%; forest, 55.6%.

Baps: Topographic/Composite - Bydrologic Lata for Experimental Agricultural Watersheds in the United States, 1975,
USIA Misc. Fub. 1446, pages 74.008-20 and 74.002-22.

Frecipitation: Records began January 1968. Walnes are weighted using the reciprocal distance squared method from 12
recording gages.

Ennoff: Becords began January 1, 1968.

Long-Term Frecipitation: Wational Weather Service records at Tiftor, Georgia.

1977	.1	AILY PEECI	FITBTICE	(IBCHES)		TIPT(B, GECEGI) IITTLE	FIVES W	PIEEEE		
Lay	Jan	F∈b	Bar	lpr.	ža y	Jnr	Jel	å ng	Sep	Cct	BCV	[ec
1 1 1 1 2 1 3	0.0 0.07 1.71	0.02 0.0 0.22	0.0 0.0 0.0	0.04 0.0 0.02	0.0 0.0 0.0	0.01 0.0 0.0	0.01 0.31 0.29	0.10 0.24 0.02	0.0 0.40 0.79	0.01 0.0 0.0	0.0 0.0 0.06	0.13 0.0 0.0
1 4 1 5	0.0 0.01	0.06 0.02	1.61 0.20	0.0 0.78	0.0	0.0	0.09 1.25	0.41	0.86 0.66	0.0	2.33 0.02	0.0
6 1 7 1 8 1 9	0.51 0.17 0.0 0.42 0.06	0.0 0.0 0.02 0.0	1.53 0.22 0.0 0.92 0.19	0.02 0.02 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.34 0.17 0.0 0.C 0.0	0.0 0.0 0.07 0.05 0.0	0.0 0.0 0.0 0.0	0.45 0.62 0.0 0.0	0.0 0.0 0.0 0.11	0.05 0.02 0.0 0.0	0.02 0.0 0.0 0.07
1 11 1 12 1 13 1 14 1 15	0.0 0.01 0.0 1.31	0.0 0.0 0.27 0.02 0.0	0.0 0.41 0.19 0.02 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.18 0.0 0.02 0.02	0.0 0.0 0.0 0.0 0.02	0.0 0.0 0.0 0.16 0.01	0.0 0.03 0.0 0.0 0.10	0.03 0.14 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 1.50
16 17 18 19 20	0.0 0.0 0.0 0.0	0.0 0.0 0.02 0.27 0.05	0.0 0.0 0.0 0.0 0.11	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.01 0.83 0.07 0.02	0.0 0.0 0.59 0.02 0.0	0.04 0.27 0.69 0.23 0.0	0.53 0.08 0.02 0.23 0.01	0.0 0.0 0.0 0.0	0.10 0.02 0.02 0.0 0.0	0.0 0.51 0.02 0.0 0.31
21 22 23 24 25	0.0 0.0 0.0 0.51	0.03 0.0 0.01 1.00	1.06 0.11 0.0 0.0 0.0	0.0 0.0 0.76 0.03	0.0 0.02 0.0 0.13 0.0	0.0 0.38 0.13 0.01 0.0	0.0 0.06 0.01 0.0 0.0	0.0 0.0 0.0 0.19 1.14	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.07 0.22 0.32 0.03	0.03 0.0 0.0 0.0 0.74
26 27 28 29 30 31	0.0 0.13 0.02 0.0 0.0	0.0 0.95 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.02 0.0 0.0 0.0	0.16 0.07 0.02 0.25 0.18 0.39	0.0 0.0 0.0 0.40	0.15 1.85 1.37 0.03 0.71 0.07	1.15 0.04 0.02 0.11 0.09	0.0 0.01 0.0 0.0 0.21	0.0 0.0 0.01 0.0 0.0	0.0 0.0 0.0 0.0 0.59	0.0 0.0 0.0 0.07 0.40
TCTAI STA AV	5.02 3.96	2.96 4.44	6.57 6.11	1.69 3.29	1.22 4.62	2.57 4.34	6.95 6.14	4.93	5.14 2.48	1.10 1.67	3.85 2.€6	4.39 4.31

Gaging: Values are weighted using Reciprocal Distance Squared Bethod from 12 recording gages. Station Averages: 10 yr beginning 1968.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia
Institute of Technology, and Middle South Georgia Soil Conservation District

19	77	MEAB DAII	Y DISCHAF	GE (CFS)		TIET	CN, EFCFE	HITTLI AL	PIAGE	WATERSEED E	k	
Day	Jan	F∈b	Ear	Apr	ža y	Jur	Jul	Aus	Sep	Cct	ĭcv.	I∈c
1	19.112	13.066	15.627	24.508	0.397	0.0	3.6	0.5	J.025	0.346	0.0	8-573
1 2	14.860	11.734	12.370	12.314	0.248	0.0	0.0	0.0	0.023	0.270	0.0	6.565
] 3	67.990	11.855	11.221	5.565	0.186	0.0	0.0	0.0	0.385	0.310	0.644	3.653
4	55.919	15.625	35.791	8.125	0.121	0.0	0.135	0.0	0.541	0.160	5.771	2.636
5	29.137	14.222	58.035	23.732	0.05€	0.0	3.447	0.0	4.784	0.070	7.765	3.004
. €	22.147	11.221	4€.15€	15.149	0.080	0.0	0.001	0.0	10.651	0.022	9.219	4.191
j 7	40.353	9.630	52.503	9.643	0.047	0.0	0.0	0.0	22.045	0.004	5.437	4.622
į ε	31.399	9.111	35.538	7-204	0.001	0.0	0.0	0.0	19.396	u.0	7.561	3.103
9	21.780	8.774	22.882	5.833	0.3	0.0	3.0	0.0	15.401	0.0	2.279	€.217
10	33.055	8.463	15.759	4.881	6.0	0.0	9.0	0.0	€.377	0.0	1.385	2.937
1 11	26.193	8.193	23.420	4.117	0.0	0.0	3.9	0.0	3.025	0.0	0.554	1.89€
12	15.357	7.905	21.091	3.830	0.0	0.0	0.0	0.0	2.115	0.0	0.762	1.716
13	17.008	11.875	34.387	4.404	0.0	0.0	9.0	0.0	1.685	0.0	0.784	1.71€
14	40.783	11.797	27.661	2.634	0.0	0.0	0.0	0.0	1.451	0.0	0.610	11.001
15	55.114	8.€38	17.458	2-241	0.0	0.0	0.0	0.0	1.205	0.0	0.802	20.42€
l 1 16	28.715	7.212	15.849	1.75€	0.0	0.0	0.0	0.0	1.482	0.0	0.736	13.502
17	20.440	6.555	13.966	1.429	0.0	0.0	0.0	0.0	2.583	0.0		€.771E
18	16.347	6.552	12.813	1.672	0.0	0.0	0.0	0.0	4.330	0.6	0.847	5.250E
19	16.862	6.792	12.352	4.463	0.0	0.0	0.0	0.0	3.852	0.0	0.858	9-122E
20	18.139	12.588	12.545	1.281	0.0	0.0	0-0	0.0	3.725	0 - C	6.558	15.173E
l 21	16.433	9-626	15.178	0.885	0.0	0.0	0.0	0.0	3.216	0.0	0.516	5.789E
22	15.235	7.485	44.211	0.701	0.0	0.0	0.0	0.0	2.073	0.0	0.455	8.802F
23	14.256	7.513	28.393	5.770	0.0	0.0	0.0	0-0	1.336	0.0	1.073	6.942
24	16.110	23.872	14.815	5.236	0.0	0.0	0.0	0 - C	0.554	0.0	2.615	€.177
25	23.943	23.268	11.395	4.034	0.0	0.0	0.0	0.036	0.744	C.0	2.579	12.870
I I 2€	17.952	16.129	10.170	2.30€	3.0	0.0	0.0	0.220	0.556	0.0	1.866	17.0€0
27	15.088	18.333	9.345	1.310	0.0	0.0	0.0	0.447	0.402	0.0	1.298	12.498
26	16.431		€.94€	0.890	0.0	0.0	0.0	0.110	0.264	0.0		€.165
29	14.172		11.039	0.608	0.0	0.0	0.0	0.514	0.181	3.0	0.960	€.5201
30	12.012		7.856	0.471	0.0	0.0	0.0	0.394	U. 185	0.0	1.382	5.1E4E
	12.367		20.766		0.0		0.0	0.10€		0.0		12.665E
BEAR	24.886	12.097	23.803	5.966	0.037	0.0	0.019	0.059	3.839	0.038	2.037	8.035
INCHES	4.458	1.959	4.268	1.035	0.007	0.0	0.003	0.011	0.666		0.353	1.442
VA AFE	1.759	2.523	3.080	2.174	1.270	0.806	0.697	1.217	0.456		0.287	0.510

Station Averages: 10 yr beginning 1560. Conversion Eactor: CPS to IN/DAY, multiply by 0.005764115.

	ECTED RONG	PF E4E63			111108	, GECEGIA	1111LE B.	LVEB WATE	PSEEL R	
	NT CCNDI				IBEALL			FUNCE		
	Fainfall	Runcff			Intersity		Date	Tim€	Bat€	Acc.
#c-Day	(itches)	(inches)	No-Day	of Day	(in/br)	(inches)	ac-Day	of Lay	(cfs)	(inch∈s)
			E v e	NT CE JA	SCAFY 12 -	18, 1977				
БС	000039			EG 0000	39					
1-14	0.0		1-14	£ 34	0.0	0.0	1-12	5	22.198	0.0
1-12		0.000		705	0.1935	0.16		10	21.615	0.0004
				735	0.2000	0.20		210	21.041	0.0009
				203	0.2000	0.30		430	20.478	G.0013
				825	0.2000	0.40		700	19.920	0.0017
ATERSBED C	CKITIONS:									
ter, 1.0%:	crops, 29	.8%;		850	0.4000	0.50		930	19.373	0.0021
	7: pasture			900	0.8000	0.60		1220	18.835	0.0025
.6%; rcads				520	0.3000	0.70		1600	16.304	0.0028
rest, 55.8	3.			945	0.2400	0.80		1855	17.783	0.0032
				1005	0.3000	0.50		2400	17.783	G-0250
				1020	0.4000	1.00	1-13	115	17.271	0.0253
				1055	0.1714	1.10		1405	1€.7€7	0.0257
				1305	0.0462	1.20		2005	16.272	0.6260
								2400	16.272	0.0414
							1-14	715	16.787	0.0441
								745	17.783	0.0444
								8.30	16.304	0.0455
								910	20.476	0.0459
								955	24.617	0.0465
								1010	25.24€	0.6474
								1045	25.856	0.0513
								1120	32.759	0.0519
								1140	35.004	0.0526
								12 10	38.940	0.6534
								1245	44.857	0.0593
								1320	49.382	0.0603
								1400	53.182	0.0613
								1425	56.129	0.0€25
								1500	57.147	0.0€59
								1525	59.189	0.0671

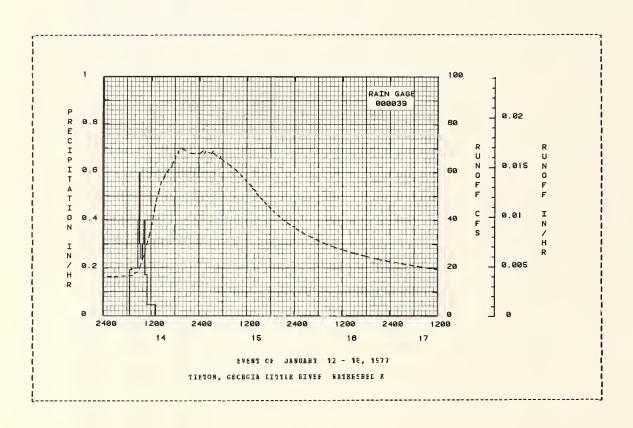
Conversion Factor: CFS to IB/B5, multiply by 0.000241004.

ARTICIDENT CORDITIONS Date Bainfall Funcff Bc-Day (ircbes) (incbes)	Dat∈ Mo-Day	Time of Cay	Intersity (in/br)	Acc. (inches)	Dat∈ Ec-Day	Time cf Cay	Bat∈ (cis)	Acc. (inches)
			12 - 18,					
					1-14	1700 1725	€1.274 62.333	0.0695 0.0720 0.0733
						1835 1846 1925	66.670 67.775 68.502 70.033 68.502	
					1-15	2400 50 115	67.779 67.779 68.902 67.779 68.902	0.1250 0.1264
						325 330 425	67.775 68.502 67.779 66.670 65.570	0.1315 0.1333 0.1346
						525 610 715	66.670 65.570 64.480 63.401 62.333	0.1414
						935 1010	61.274 60.227 55.165 .56.163 57.147	0.1489
						1225 1310 1315	56.139 55.144 54.159 53.182 52.217	0.1535 0.1567 0.1576
						1445 1515 1550	51.262 50.316 45.362 46.456 47.542	0.1640 0.1650 0.1660
						1725 1755 1630	46.637 45.742 44.857 43.983 43.117	0.1685 0.1698 0.1707
						20 15 20 50	42.262 41.417 40.581 35.755 38.940	0.1732 0.1741 0.1749
					1-16	2250 2330 2400 20 100	38.133 37.336 87.336 36.545 35.772	0.1817
						150 235 335 435 520	35.004 34.246 33.457 32.755 32.026	0.1839 0.1846 0.1852 0.1855 0.1866
						615 715 815 920 1030	31.30 E 30.5 S E 25.8 S E 29.20 4 26.5 21	0.1872 0.1876 0.1884 0.1890 0.1856
						1145 1305 1425 1550 1715	27.847 27.183 26.528 25.882 25.246	0.1902 0.1907 0.1913 0.1918 0.1523
					1-17	1845 2025 2150 2400 200	24.617 23.555 23.350 22.785 22.158	0.1528 0.1533 0.1538 0.1542 0.1547

74.008- 3

1977	£1	ELECTED FUNC	FF EVENT			TIFICK	, GECFGIA	IIIIIE F	IVEF WATE	FSEEC F		
		ENT CONDIT				INFALL			FUNCE			
	Tat∈ Mo-Day		Funcff (inches)	Date Mo-Day	Time of Cay	Intensity (in/hr)		Eat∈ ∦c-Eay	Time of Day	Fate (cfs)	Acc. (inches)	
				EVEBT OF	JANCARY	12 - 18,	1977 (CC)	MINUFC)				
								1- 17	400	21.615	0.1951	
									555	21.041	0.1956	
									815	20.47€	0.1960	
									10 25	19.920	0.1964	
									1640	19.373	0.1979	
									2250	18.835	0.1983	
									2400	18.835	0.2036	
								1-18	435	18.304	0.2040	
									2040	17.763	0.2044	
									2125	18.304	0.2047	
									2140	17.783	0.2051	

Conversion Factor: CPS to IN/HF, multiply by 0.000241004.



74.008- 4

TIFICH, GEORGIA HITTLY FIVER WATERSHED &

LCCATION: Turner County, Georgia: approximately 4 miles northwest of Ashburn on County Foad S1531; Bewell Erecch, Little Siver Watershed, Withlacocchee River Suk-hasiu, Suwanee Biver Easiu. Lat. 31 deg. 41 mir. 46 sec., Loug. 83 deg. 43 miu. 52 sec.

646.00 acres 1.01 sg. miles ABEA:

20	BIHLE	PRECIP	ITATICN	AND FUNCI	F (INCHE	٤)	TIFICE, GECEGIA IITTLE FIVEE WATERSTEL E							
		Jan	P∈b	tar	ytr	Mey	Juu	Jul	₽vg	Ser	Oct	B C V	Ľ€C	lspii
1977	E Q	4.90 3.324	2.98 1.529	6.32 3.072	1.33 0.501	0.99 0.004	1.87	10.31 0.244	4.90 0.407	6.29 1.398	1.26 0.081	3.23 0.359	5.00 1.379	45.38 12.296
STA AV	P Q	4.07 1.276	4.48 1.901	6.3B 2.541	3.22 1.610	4.46 0.947	4.59 0.808	6.47 0.618	5.15 0.736	2.47 0.264	1.71 0.069	2.64 0.207	0.645	50.06 11.622
	ANNU	AL EARI		CHAFGE (i	/br) AVI				CFF (inch		SFLFCTE		NIFEVALS	
		Discha		1 Bour	2			Volume i	cr Select 12 Hours		Interva Day		s (eys
		Discha Dat∈ !	rge	1 Bour Date Vc			6 B	curs		1				Erys
1977			arge Bate	Date Vc	l. Date	Bours Vol.	6 Bc Dat∈	vol. D	12 Hours	1 Date	Day Vol.	2 Cay Fate V	cl. Dat	e Vol.
1977		Dat∈ !	arge Bate	Date Vc	l. Date	0.074	6 Bc Date 3- 4	vol. D	12 Hcurs ate Vol.	1 Date	Day Vol.	2 Cay Fate V	cl. Dat	€ ¥01.

Natershed Conditions: Crops, 42.2%; pasture, 10.6%; roads, 0.7%; forest, 46.5%.

Maps: Topographic/Composite - Bydrologic Data for Experimental Agricultural watersheds in the United States, 1975, 0SDA, Fisc. Fut. 1946, pages 74.002-24 and 74.002-22.

Precipitation: Fecords began January 1568. Values are weighted using reciprocal distance squared rethod from 8 recording gages.

**

**Euroff: Fecords began January 1, 1968.

**Long-Term Precipitation: Mational Weather Service records at Tiftor, Georgia.

1977	E)	ILY PRECI	HITATIC	(INCEFS)		1111	CN, GFCFG	IA LITTLE	BIVPB W	ATEFSEEC P		
Lay.	Jan	Feb	Bar	Apr	Łay	Jua	Jul	Aug	2e F	Cct	Bc▼	Ľ€C
1 1 2 1 3 1 4 1 5 5	0.0 0.04 1.62 0.0 0.05	0.02 0.0 0.21 0.13 0.02	0.0 0.0 0.0 1.66 0.23	0.07 0.0 0.02 0.0 0.63	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0 0 - 0	0.04 0.12 1.04 0.40 2.29	0.40 0.23 0.0 0.72 0.0	0.0 0.46 0.92 0.85 1.01	0.04 0.0 0.0 0.0 0.0	0.0 0.0 0.02 1.91 0.02	0-11 0-0 0-0 0-0 1-02
6 1 7 1 6 1 9	0.45 0.20 0.0 0.33 0.10	0.0 0.0 0.02 0.0 0.0	1.52 0.20 0.0 0.03 0.17	0.02 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.25 0.18 0.0 0.0	0.0 0.0 0.04 0.11	0.0 0.0 0.0 3.0	0.53 0.98 0.0 0.0	0.0 0.0 0.0 0.20 0.0	0.04 0.0 0.0 0.0	0.02 0.0 0.0 0.08 0.08
1 11 1 12 1 13 1 14	0.0 0.02 0.0 1.38 0.0	0.0 0.0 0.19 0.02 0.0	0.0 0.47 0.20 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.19 0.0 0.0	0.0 0.0 0.) 0.02 0.0	0.0 0.0 0.0 0.03 0.04	0.0 0.0 0.0 0.02 0.02	0.03 0.27 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 1.48
1 16 1 17 1 18 1 19 1 20	0.0 0.0 0.0 0.0	0.0 0.0 0.02 0.14 0.04	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.01 0.76 0.03 0.0	0.0 0.0 0.65 0.02 0.0	0.04 0.0 1.26 0.20	0.54 0.14 0.02 0.24 0.0	0.0 0.0 0.0 0.0	0.09 0.05 0.02 0.0	0.0 0.62 0.02 0.0 0.31
21 1 22 1 23 1 24 1 25	0.0 0.0 0.0 0.48	0.06 0.0 0.04 0.99	1.12 0.12 0.0 0.0 0.0	0.0 0.0 0.51 0.06 0.0	0.0 0.0 0.0 0.0	0.0 0.17 0.21 0.04 0.0	0.0 0.04 0.04 0.0	0.0 0.0 0.0 0.0 0.37	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.6 0.01 0.21 0.15 0.66	0.06 0.0 0.0 0.0 0.0
26 27 28 25 30	0.0 0.09 0.02 0.0 0.0 0.11	0.0 1.08 0.0	0.0 0.0 0.0 0.0 0.0 0.50	0.0 0.02 0.0 0.0 0.0	0.47 0.12 0.04 0.12 0.11	0.0 0.0 0.0 0.03 0.03	0.28 2.42 1.88 0.06 0.88 0.02	1-43 0.05 0.02 0.03 0.06 0.0	0.04 0.04 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.6 0.0 0.65	0.0 0.0 0.0 0.05 0.36 0.0
TOTAL STA AV	4.90 4.07	2.98 4.48	6.32 6.38	1.33 3.22	0.99 4.46	1.67 4.59	10.31 6.47	4.90 5.15	6.29 2.47	1.26 1.71	3.23 2.64	5.CO 4.41

Gaging: Values are weighted using Reciprocal Distance Squared Bethod from 8 recording gages. Station Averages: 10 yr begirning 1968.

In Cooperation with University of Georgia College of Agriculture Experiment Stations, Georgia
Institute of Technology, and fiddle South Georgia Soil Conservation District

197	77	MEAN DAIL	Y LISCHAR	GE (CFS)		IIPI	CR, GECEG	I IIIII E	FIVES	RATEFEEE	8	
Day	Jan	F∈b	Mar	Apr	Eay	Jut	Jul	Àτις	Sep	Cct	Bov	D€c
1	2.114	1.695	1.414	1.687	0.017	0.0	0.0	0.790	0.039	0.371	0.030	1.208
2	1.647	1.462	1. 170	1.115	0.018	0.0	0 - 4	0.811	0.036	0.288	0.030	0.628
3	10.042	1.544	1.085	0.506	0.019	0.0	0.0	0.926	0.239	0.153	0.031	0.469
4	4.327	2.193	E. 146	0.746	0.014	0.0	0.5	0.525	3.143	0.139	1.385	0.333
5	2.827	1.724	4.028	2.355	0.012	0.0	0.925	1.529	5.683	0.105	2.678	1.399
€	2.457	1.345	7.664	1.294	0.010	0.0	0.018	0.808	4.490	0.075	0.850	1.646
7	5.357	1. 22 3	5.469	0.763	0.005	0.0	0.007	0.337	6.152	0.056	0.459	0.659
8	2.795	1.161	3.048	0.595	0.002	0.0	0.002	0.158	3.817	0.046	0.318	0.420
9	2.386	1.149	2.425	0.486	r 5.6	0.0	0.001	0.069	1.614	0.043	0.253	0.367
10	3.816	1.084	2.343	0.394	0.0	0.0	0.0	0.031	1.105	0.C35	0.203	0.334
11	2-420	1.070	2.760	0.355	0.0	0.0	0.0	0.020	0.841	0.032	0.159	0.305
12	2.075	1.018	2.483	0.304	0.0	0.0	0 . u	0.018	0.690	0.039	0.134	0.301
13	1.979	1.446	5.211	0.263	0.0	0.0	0.0	0.018	0.602	0.040	0.113	0.301
14	8.652	1. 32 8	2.439	0.214	0.0	0.0	0.0	2.017	0.575	0.041	0.096	2.558
15	4.492	1.022	1.876	0.184	0.0	0.0	0.0	0.016	0.502	0.048	0.094	2.631
16	2.796	0.913	1.750	0.150	0.0	0.0	0.0	0.017	0.551	0.047	0.100	1.064
17	2.231	0.849	1.570	0.111	0.0	0.0	0.0	0.017	1. 924	0.043	0.143	0.868
18	2.180	0.834	1.496	0.093	0.0	0.0	0.0	0.018	1.241	0.040	0.151	2.735
19	1.962	0.886	1.433	0.100	0.0	0.0	0.0	0.022	U. 977	0.040	0-127	1.344
20	1.955	1.451	1.502	0.076	0.0	0.0	0.3	0.387	0.931	0.040	0.114	0.958
21	1.986	1.010	1.723	0.058	0.0	0.0	0.0	0.261	0.675	0.038	0.107	1.555
22	1.852	0.801	5.936	0.054	0.0	0.0	0.0	0.104	0.463	0.039	0.110	1.057
23	1.764	0.723	2.057	0.254	0.0	0.0	0.0	0.039	0.315	0.034	0.192	0.843
24	2.671	4.028	1.515	0-490	0.0	0.0	0.0	0.026	0-247	0.032	0.346	0.816
25	2.968	1.891	1.374	0.245	0.0	0.0	0.0	0.042	0.205	0.033	3.426	3.352
2€	1.885	1.075	1.205	0.135	0.0	0.0	0.0	0.128	0.175	0.026	0.256	2.384
27	1-921	3.627	1-054	0.082	0.0	0.0	0.268	2.549	0.155	0.055	0.215	1.166
28	2.137	2.946	1.028	0.048	0.0	0.0	0.253	0.338	0.133	0.060	0.150	1.025
29	1.666		1.034	0.028	0.0	0.0	0.874	0.258	0.097	0.048	0.171	0.972
30	1.461		0.367	0.020	0.0	0.0	1.855	0.145	0.168	0.040	0.726	1.540
31	1.553		2.175		0.0		2.365	0.076		0.037		1.742
FAB	2.9102	1. 48 19	2.6895	0.4534	0.3032	0.0	0.2138	0.3561	1.2651	0.3709	0.3249	1.2071
NCHES	3.324	1.529	3.072	0.501	0.004	0.0	0.244	0.407	1.398		0.359	1. 375
VA AL	1-276	1.901		1.610	0.947	0.808	0.618	0.736	0.264		0.207	0.64

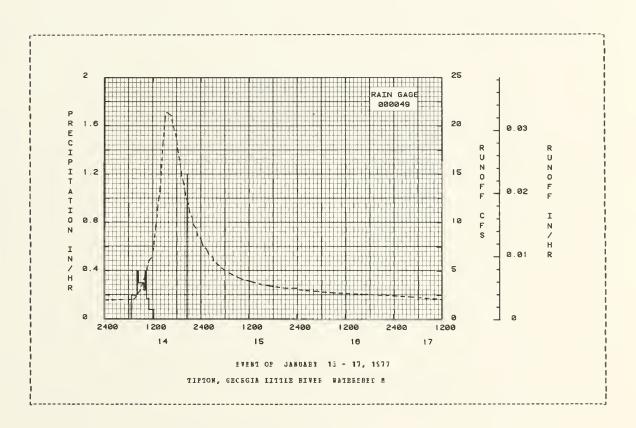
Station Averages: 10 yr beginning 1966. Conversion Factor: CFS to IB/CAY, aulitply by 0.036844663.

ABTECEDENT COND	TIONS		F A	INFALI			FUNCE	F	
Tate Fainfall Fo-Day (inches)	Runcff		lim∈	Intensity	Acc. (inches)	Eat∈ Ec-Eay	1i∎∈	Bat∈	Acc. (inches)
			ng of 131	NUARY 13 -	42 4622				
		EVE			17, 1277				
FG 000049			FG 0000			4 45	0.00	4 030	
1-14 0.0 1-13	0.149	1-14	640 740	0.0 0.2000	0.0	1-13 1-14	2400 725	1.979 2.076	0.0
1-13	0. 149					1-14			
			£ 10	0.2000	0.30		855	3.061	0.0014
			825	0.4000	0.40		1015	4.785	0.0021
MATECRED COMITATION			E45	0.3000	0.50		1100	6.083	0.0028
ATERSHED CONTITIONS			905	0.3000	0.60		1140	E.369	0.0053
	•		905 925	0.3000	0.70		1205	6.969	0.0053
6%; rcads, 0.7%; est, 46.5.			945	0.3000	0.70			9.770	
.est, 4c.5.							1245		0-0147
			13 10	0.2400	0.96		1250	5.770	9.0180
			1025	0.4000	1.00		1315	11.873	0.0229
			1100	0.1714	1.10		1335	12.757	0.0245
			1215	0.0800	1.20		1350	13.770	0.0263
			2035	0.0	1.20		1430	18.181	0.0426
			2040	1.2000	1.30		1505	21.044	0.0505
							1520	21.424	0.0532
							1635	21.044	0.0613
							1705	15-921	0.0639
							1750	18.828	0.0663
							1810	17.582	0.0686
							1840	16.426	0.0707
							1910	14.753	0.0726
							1935	14. 275	0.0762
							2010	12.757	0.0779
							20 50	11-873	0.0810
							2115	10.558	0.0824
							2145	10.577	0.0851
							2210	5.770	0.0864
							2245	5.383	0.0900
							2315	E. 642	0.0900
							2400	E.2E7	0.0953

Conversion Factor: CFS to IB/HF, multiply by 0.001535194.

577	SELECTED RONC	PP EVENT		TIFICE, GECECIA LITTLE BIVES WATEFSEED E								
ITAS	CHERT CONDI	ICKE		F23				EUBCF				
Date #c-Da	Bainfall (irches)	Funcff (inches)	Dat∈ Fo-Cay	li∎∈ of Fay	Intersity (in/tr)	Acc.	Dat∈ 5c-Day	Tim∈ cf Day	Fate (cfs)	Acc. (inches)		
			EAERI CE	JANOAFY	13 - 17,	1977 (CCK	TINGEC)					
							1-15	30	7.698	0.0563		
								125	7.264	0.1010		
								200	E.EE4	0.1019		
								305		0.1068		
								3 10	6.083	0.1078		
								350	5.80€	0.1083		
								4 35	5.53€	0.1090		
								5 2 0	5.278	0.1097		
								610		0.1104		
								705	4.785	0.1110		
								805	4.552	0.1118		
								915		0.1122		
								1030		0.1127		
								1155	3.959	0.1133		
								1335	3.7€7	0.1137		
								1525	3.581	0.1142		
								1750		0.1147		
								2050		6.1151		
								2400	3.228	0.1306		
							1-16	30	3.081	0.1312		
								34				
								435	2.900	0.1318		
								930		0.1319		
								1730	2.595	0.1323		
								2400	2.451	0.1341		
							1-17	505	2.313	C.1344		
								655	2.180	0.1347		

Conversion Factor: CES to IN/BE, anltiply by 0.001535194.



74.009- 3





